BIRD CWCS SPECIES (94 SPECIES)

Common name	Scientific name
American Bittern	Botaurus lentiginosus
American Black Duck	Anas rubripes
American Golden-plover	Pluvialis dominica
American Kestrel	Falco sparverius
American White Pelican	Pelecanus erythrorhynchos
American Woodcock	Scolopax minor
Bachman's Sparrow	Aimophila aestivalis
Bald Eagle	Haliaeetus leucocephalus
Bank Swallow	Riparia riparia
Barn Owl	Tyto alba
Bell's Vireo	Vireo bellii
Bewick's Wren	Thryomanes bewickii
Black Tern	Chlidonias niger
Blackburnian Warbler	Dendroica fusca
Black-crowned Night-heron	Nycticorax nycticorax
Black-necked Stilt	Himantopus mexicanus
Black-throated Green Warbler	Dendroica virens
Blue-winged Warbler	Vermivora pinus
Bobolink	Dolichonyx oryzivorus
Brown Creeper	Certhia americana
Buff-breasted Sandpiper	Tryngites subruficollis
Canada Warbler	Wilsonia canadensis
Cerulean Warbler	Dendroica cerulea
Chuck-will's-widow	Caprimulgus carolinensis
Common Moorhen	Gallinula chloropus
Common Raven	Corvus corax
Common Tern	Sterna hirundo
<u>Dickcissel</u>	Spiza americana
<u>Dunlin</u>	Calidris alpina
Golden-winged Warbler	Vermivora chrysoptera
Grasshopper Sparrow	Ammodramus savannarum
Great Egret	Ardea alba
Greater Prairie-chicken	Tympanuchus cupido
Greater Scaup	Aythya marila

Henslow's SparrowAmmodramus henslowiiHooded MerganserLophodytes cucullatusHorned GrebePodiceps auritus

<u>Interior Least Tern</u> Sterna antillarum athalassos

Kentucky WarblerOporornis formosusKing RailRallus elegans

<u>Lark Sparrow</u> Chondestes grammacus

 Least Bittern
 Ixobrychus exilis

 Least Flycatcher
 Empidonax minimus

 Least Flycatcher
 Author official

Lesser ScaupAythya affinisLesser YellowlegsTringa flavipesLittle Blue HeronEgretta caeruleaLoggerhead ShrikeLanius ludovicianus

<u>Long-eared Owl</u>

Asio otus

<u>Louisiana Waterthrush</u> Seiurus motacilla

Mississippi KiteIctinia mississippiensisNorthern BobwhiteColinus virginianusNorthern HarrierCircus cyaneusNorthern PintailAnas acuta

Pandion haliaetus **Osprey** Peregrine Falcon Falco peregrinus Pied-billed Grebe Podilymbus podiceps **Piping Plover** Charadrius melodus Prairie Warbler Dendroica discolor Protonotaria citrea Prothonotary Warbler **Red-breasted Nuthatch** Sitta canadensis Red-cockaded Woodpecker Picoides borealis

Red-headed Woodpecker Melanerpes erythrocephalus
Rose-breasted Grosbeak Pheucticus ludovicianus

Ruffed GrouseBonasa umbellusRusty BlackbirdEuphagus carolinusSanderlingCalidris alba

SanderlingCalidris albaSandhill CraneGrus canadensis

Savannah Sparrow Passerculus sandwichensis

<u>Sedge Wren</u> Cistothorus platensis

Semipalmated SandpiperCalidris pusillaSharp-shinned HawkAccipiter striatusShort-billed DowitcherLimnodromus griseus

Short-eared Owl Asio flammeus Solitary Sandpiper Tringa solitaria Porzana carolina Sora **Spotted Sandpiper** Actitis macularius Stilt Sandpiper Calidris himantopus Swainson's Warbler Limnothlypis swainsonii Swallow-tailed Kite Elanoides forficatus Trumpeter Swan Cygnus buccinator Tundra Swan Cygnus columbianus **Upland Sandpiper** Bartramia longicauda Tundra Swan Cygnus columbianus Vesper Sparrow Pooecetes gramineus Virginia Rail Rallus limicola Calidris mauri Western Sandpiper Whooping Crane Grus americana Whip-poor-will Caprimulgus vociferus Willow Flycatcher Empidonax traillii Wilson's Phalarope Phalaropus tricolor Wilson's Snipe Gallinago delicata **Wood Thrush** Hylocichla mustelina Worm-eating Warbler Helmitheros vermivorus

<u>Yellow-crowned Night-heron</u> Nyctanassa violacea

CLASS AVES

Yellow Rail

American Bittern

Botaurus lentiginosus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Н	G4	SHB	G4	S 1

Coturnicops noveboracensis

G-Trend Decreasing

G-Trend Widespread distribution but populations are declining (NatureServe 2004).

Comment Population estimate due pending Version 2 of the Waterbird Plan (Kushlan et

al. 2002).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses dense, emergent marshes with patches of open

Life History water. It will also use lake and pond edges with cattails and sedges for stop

over habitat.

Key Habitat condition is POOR (emergent marshes) to FAIR (lake and pond edges)

Habitat overall in Kentucky.

No key habitat to identify; the species will use appropriate habitat where

available range wide.

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

Statewide <u>AmericanBittern.pdf</u>

American Bittern

Botaurus lentiginosus

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration . Loss of dense emergent shallow water wetlands
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

- 4A Acid mine drainage other coal mining impacts
- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to, draining of wetlands
- 3F Urban/residential development. Recreational development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Natural succession of wetlands

American B	Black Duck					Anas rubripes		
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	N	G5	S4N	G5	S4		
G-Trend	Decreasi	ng						
G-Trend	Declined	l from 7 milli	on in 1955 t	o 3 million	in 1985 (NatureS	Serve 2004).		
Comment								
S-Trend	Decreasi	Decreasing						
S-Trend	Waterfov	Waterfowl harvest data show declines in the Mississippi Flyway (Fronczak						
Comment	2004).	2004).						
Habitat /	This is a wintering duck that primarily uses forested wetlands: buttonbush							
Life History sloughs, flooded bottomland hardwoods, and beaver ponds. It will also use								
	shallow water wetlands and flooded fields, as well as loaf on larger bodies of							
	water (which provide little foraging habitat).							
Key	Habitat o	Habitat condition ranges from POOR (forested wetlands, shallow water						
Habitat	wetlands) to GOOD (larger bodies of water).							
	No key l	nabitat to ider	ntify; this sp	ecies will us	se appropriate ha	bitat statewide.		
Guilds	Emergen	nt and shrub-c	dominated w	etlands, for	ested wetland, ru	nning water,		

standing water.

Statewide <u>AmericanBlackDuck.pdf</u>

American Black Duck

Anas rubripes

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Biological/ consumptive uses

- 5D Competition from introduced/invasive or native species. With Mallards
- 5E Hybridization with closely related species. With Mallard on breeding
- 5N Hunting. Possible effects of over harvest, especially in areas where hybridization commonly occurs

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion of wetlands

- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

Acid precipitation

American Golden-plover

Pluvialis dominica

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

G-Trend Decreasing

G-Trend Species thought to be in decline in the U.S. but statistical verification is lacking

Comment (Brown et al. 2001).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, wet prairies, floodedLife History agricultural fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands, wet praries) toHabitat FAIR (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (as proposed Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

Statewide <u>AmericanGolden-plover.pdf</u>

American Golden-plover

Pluvialis dominica

Conservation Issues

Aquatic	habitat	degradation
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion of wetlands

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

CLASS Aves

Life

American K	Kestrel				F	Talco sparverius		
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	N	G5	S5B,S	G5	S5		
				5N				
G-Trend	Decreasi	ng						
G-Trend	Breeding	Breeding Bird Surveys show a significant decrease of 0.7% survey-wide for the						
Comment	period 19	period 1966-2007 with a relative abundance of 0.86 individuals per route (Sauer						
	et al. 2008). An analysis of migration counts of American Kestrels suggest							
	declines in the northeastern, midwestern and western regions of the continent							
	(Farmer and Smith 2009). Declines have also been documented in monitored							
	populations of kestrels using nest boxes. Related analyses which take into							
	account the timing of disease and predator population increases suggest that							
	causes for decline may be on wintering/migration grounds (Smallwood et al							
	2009).							
S-Trend	Unknow	n						
S-Trend	Breeding	g Bird Survey	s in Kentuc	ky show a n	onsignificant dec	crease of 0.6% for		
Comment	the perio	d 1966-2007	with a relati	ive abundan	ce of 1.63 indivi	duals per route		
	(Sauer et	al. 2008).						
Habitat /	America	n Kestrels are	e usually fou	ınd in semi-	open and open h	abitats. They are		

most abundant in rural farmland where they hunt over fields and pastures

History (Palmer-Ball 1996). However, they are also found in native grasslands and

altered habitats such as urban areas, city parks, golf courses, industrial parks,

and reclaimed surface mines.

Key Habitat condition throughout Kentucky is FAIR for this species.

Habitat

No key habitat to identify: the species will use appropriate habitat statewide.

Guilds grassland/agricultural, urban/suburban.

Statewide <u>American_Kestrel.pdf</u>

Map

Conservation Issues

Biological/ consumptive uses

- 5D Competition from introduced/invasive or native species. Competition for cavities with starlings and other species.
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Suitable nest site availability- lack of natural cavities.
- 5Q Declining prey base. Pesticide use, over-grazed pasture and row-cropping.

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc). Results in lower prey populations in open habitat.
- 3F Urban/residential development
- 3N Removal of dead trees
- 3S Fire suppression/fire regime management

American White Pelican

Pelecanus erythrorhynchos

	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	N	G3	SZN	G3	S4		
G-Trend	Stable							
G-Trend	Kushlan	Kushlan et al. (2002) lists the species as having an apparently stable						
Comment	population	population. North American breeding bird estimate: >120,000 breeders						
	(Kushlar	(Kushlan et al. 2002).						
S-Trend	Increasir	Increasing						
S-Trend	Species 1	Species has been observed in increasing numbers over the past several decades						
Comment	(Palmer-	(Palmer-Ball 2003).						
Habitat /	This is a	This is a transient bird that primarily uses reservoirs, but will also use other						

Habitat / This is a transient bird that primarily uses reservoirs, but will also use other

Life History bodies of water that support fish, such as bald cypress wetlands.

Key Habitat condition ranges from POOR (bald cypress wetlands) to GOODHabitat (reservoirs).

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds running water, standing water.

Statewide <u>AmericanWhitePelican.pdf</u>

American White Pelican

Pelecanus erythrorhynchos

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Miscellaneous Mortality Factors

- 6D Human disturbance (spelunking, destruction/disturbance of nest sites)
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). at feeding site
- 6E Illegal killing

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Habitat

successional forests).

American Woodcock Scolopax minor								
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	N	G5	S4S5B	G5	S4		
				,SZN				
G-Trend	Decreasi	ng						
G-Trend	Species t	Species thought to be in decline in the U.S. but statistical verification is lacking						
Comment	(Brown	(Brown et al. 2001).						
S-Trend	Stable	Stable						
S-Trend	Kentuck	Kentucky Department of Fish and Wildlife Resources singing ground surveys						
Comment	indicate	stable popula	tions.					
Habitat /	Resident	bird that bre	eds in young	g forests and	l other early succ	essional habitats		
Life History that are a result of forest disturbance. Habitat structure for adequate feeding								
	cover, display/roosting grounds and nesting must be provided during the							
	breeding	season and a	diversity of	habitat type	es must be provid	ded for wintering		
	birds (Na	atureServe 20	004).					
Key	Habitat c	condition rang	ges from UN	IKNOWN (young forests) to	POOR (early		

No key habitat to identify; the species will use appropriate habitat statewide.

Guilds grassland/agricultural, savanna/ shrub-scrub, upland forest.

Statewide <u>AmericanWoodcock.pdf</u>

American Woodcock Scolopax minor

Conservation Issues

Aquatic h	abitat d	degradation	ı
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2H Wetland loss/drainage/alteration

- 3B Mowing regimes. During nesting
- 3C Lack of newly abandoned farmland
- 3E Livestock grazing. Especially of woodland edges and through forests
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3I Conversion of native forest to short-rotation crop trees (pine, sycamore, cottonwood, etc.)
- 3M Timber harvest. Lack of timber harvest
- 30 Reforestation
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

 Prey contamination
- 3T Suppression of disturbance regimes

Bachman's Sparrow

Aimophila aestivalis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Е	G3	S1B	G3	S 1

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data show decreases survey-wide but
 Comment were not significant (Sauer et al. 2004). Partners in Flight North American
 Landbird Conservation Plan gives population estimate of 250,000 in the U.S.

and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Decreasing

S-Trend Species has declined substantially in the past 35 years. The atlas survey

Comment yielded only one probable record in priority blocks surveyed (Palmer-Ball 1996).

Habitat / The species is a habitat specialist (NatureServe 2004). In Kentucky, it is a

Life History breeding bird that formerly inhabited a variety of early successional habitats,
including old fields and pastures, young pine plantations, and regenerating clearcuts (Palmer-Ball 1996). Mengel (1965) described the species as having rather
rigid habitat requirements, inhabiting an area only if it possessed the right
combination of conditions: preferably (but not always) a hillside, some bare
ground, some native grasses and forbs, patches of blackberry briars, and
scattered small trees. Although the presence of pines was not essential, red

cedars and other evergreens were frequently associated with such habitats. In the young pine plantations where the species was once found, the trees ranged from 1 to 10 feet in height, and ground cover included a mixture of grasses, forbs, and patches of bare ground. NatureServe (2004) describes the species as requiring a well-developed grass and herb layer with limited shrub and hardwood midstory components. The species is able to colonize recent clearcuts and early seral stages of old field succession but such habitat remains suitable only for a short time.

Key

Habitat condition is POOR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

Only known current nesting population is on Fort Campbell Military
 Reservation, Trigg County (fair); subject to military maneuvers and burning.

Guilds

savanna/ shrub-scrub.

Bachman's Sparrow

Aimophila aestivalis

Statewide Bachman's Sparrow.pdf

Map

Conservation Issues

- 3C Lack of newly abandoned farmland
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3I Conversion of native forest to short-rotation crop trees (pine, sycamore, cottonwood, etc.). Conversion to short-rotation pines (planted too densely)
- 3M Timber harvest. Long-term rotation incompatible
- 3S Fire suppression/fire regime management. Negative impacts by fire suppression
- 3T Suppression of disturbance regimes. Of early successional habitat

Daiu Lagic	Bal	d	Eag	le
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Haliaeetus leucocephalus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS:LT,	T	G4	S2B,S	G4	S2
PDL			2S3N		

G-Trend Increasing

G-Trend Compared to 1974, the number of occupied breeding areas in the lower 48

Comment States has increased by 462 percent, and since 1990, there has been a 47 percent

increase. The species is doubling its breeding population every 6-7 years since

the late 1970's (U.S. Fish and Wildlife Service Federal Register 1995). Partners

in Flight North American Landbird Conservation Plan gives population estimate

of 330,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Increasing

S-Trend Numbers of nesting pairs has increased from 0 in early 1980's to 40 known

Comment nesting pairs in 2003 (Vorisek 2003).

Habitat / This is a resident and wintering bird that utilizes forested floodplains,

availability and winter roost sites are important.

Life History bottomland hardwoods, bald cypress wetlands, and riparian forests along large rivers and reservoirs. Breeding season requirements include adequate nest site and food availability. Utilizes similar habitat during winter where food

Key

Habitat condition ranges from FAIR (forested wetlands) to GOOD (reservoirs).

Habitat

Key Habitat Locations (and their condition):

- 1. Wetland forests along the Mississippi and Ohio Rivers (fair)
- 2. Land Between the Lakes National Recreation Area (good)
- 3. Ballard and Sloughs Wildlife Management Areas (good)
- 4. Winter roosts at Turner Lake Ballard Wildlife Management Area and Duncan

Lake/Bay at Land Between the Lakes (good)

Guilds

forested wetland, running water, standing water.

Statewide

BaldEagle.pdf

Bald Eagle

Haliaeetus leucocephalus

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development). Riparian corridor development
- 2G Water level fluctuations
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5L Parasitism and disease. West Nile virus, possible Avian vacuolar myelinopathy (AVM)

Miscellaneous Mortality Factors

- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). At nest and roost sites
- 6E Illegal killing
- 6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Nest loss during storms, decrease food sources during floods, etc.

- 3F Urban/residential development
- 3G Shoreline development. Riparian corridor development
- 3H Habitat loss outside of Kentucky

- 3M Timber harvest
- 3N Removal of dead trees
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

Heavy metals, poisoning (direct and indirect)

Bank Swallow	Riparia riparia

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S3B	G5	S 3

G-Trend Unknown

G-Trend North American Breeding Bird Survey data show nonsignificant decreases in the

Comment eastern and western regions and increases in the central Breeding Bird Survey region for 1966-2003 (Sauer et al. 2004).

S-Trend Decreasing

S-Trend Numbers have most likely decreased during the last century (Palmer-Ball 1996).

Comment

Habitat / This is a breeding bird that is a colonial nester and uses natural riverbanks forLife History nest burrows. Gravel pits have been colonized in recent years (Palmer-Ball 1996).

Key Habitat condition ranges from FAIR (gravel pits) to POOR (riverbanks).

Habitat

Key Habitat Locations (and their condition):

1) Banks of Mississippi and Ohio Rivers (poor).

Guilds running water.

Statewide BankSwallow.pdf

Conservation Issues

Aquatic habitat degradation

- 2B Gravel/sand removal or quarrying (e.g., mineral excavation)
- 2E Stream channelization/ditching
- 2F Riparian zone removal (Agriculture/development)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). Of colonies

- 3G Shoreline development
- 3U Loss, lack and degradation of special and unique microhabitats. Nesting at gravel pits

Barn Owl	Tyto alba
Daili Owi	i vio aiva

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S 3	G5	S 3

G-Trend Decreasing

G-Trend Population declines have been evident in the Midwest and Northeast U.S. and

Comment have been reported in several other areas (NatureServe 2004).

S-Trend Increasing

S-Trend Observations of breeding pairs has increased over the last few years.

Comment

Habitat / This is a resident bird that inhabits a variety of semi-open and open habitats.

Life History Mengel (1965) considered them to be most frequently found in farm country, and it is likely that rural farmland continues to harbor a persistent breeding population. Today these owls are also reported regularly from older residential areas of cities and towns, where large shade trees provide nest sites. Small numbers are also reported occasionally from larger cities (Palmer-Ball 1996) and recently young birds have been documented from grain silos. The species requires large tree cavities and old structures for nesting.

Key Habitat condition throughout Kentucky is UNKNOWN for this species.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds grassland/agricultural, savanna/ shrub-scrub, urban/suburban.

Statewide BarnOwl.pdf

Barn Owl Tyto alba

Conservation Issues

Biological/ consumptive uses

- 5D Competition from introduced/invasive or native species. For nest sites
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Nest site availability

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). Of nest sites (i.e., silos, buildings, etc.)

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3N Removal of dead trees
- 3Q Invasive/exotic plants (including fescue). Fescue
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes

3U Loss, lack and degradation of special and unique microhabitats. Abandoned building and other structures for nesting

Vireo bellii

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	S	G5	S2S3B	G5	S2

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data from 1966-2003 indicate significant

Comment survey wide declines averaging 2.9 percent per year (Sauer et al. 2004).

Partners in Flight North American Landbird Conservation Plan gives population estimate of 1,100,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a breeding bird found in large tracts of early successional habitat
 Life History dominated by deciduous shrubs and small trees. All such sites represent altered habitats that have been cleared and are in early stages of reforestation (Palmer-Ball 1996).

Key Habitat condition is generally GOOD (reclaimed mines), although the habitatsHabitat are altered from their original composition.

Key Habitat Locations (and their condition):

1. Muhlenburg County (good)--Peabody Wildlife Management Area and the

Wendell H. Ford Regional Training Center.

Guilds savanna/ shrub-scrub.

Statewide Bell's Vireo.pdf

Bell's Vireo Vireo bellii

Conservation Issues

D' 1 ' 1/	, •	
B1010g1cal/	consumptive	uses

- 5B Predation from native species
- 5M Brood parasitism (Brown-headed Cowbird)

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Remining of reclaimed mine lands
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes

Bewick's Wren Thryomanes bewickii

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S3B	G5	S 3

G-Trend Decreasing

G-Trend

Comment

North American Breeding Bird Survey data reveal that the species has been declining in parts of the U.S. for some time. Populations in the central and eastern parts of the range are smaller than they were in the past. Eight states (Wisconsin, Michigan, Ohio, Pennsylvania, West Virginia, Virginia, North Carolina, and South Carolina) reported declines between the 1950s and the 1980s from rare or local breeders (or "common" in the case of North Carolina) to near or certain extirpation. During the period of 1965 to 1979 severe declines occurred in Eastern and Central regions while the West was stable. In the 1980's the decline in the central states subsided, while the population in the eastern states continued to decline to the point that Breeding Bird Survey data was no longer reliable for use in trend analysis (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimate of 6,000,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Decreasing

S-Trend North American Breeding Bird Survey data for the period 1966-2003 show

Comment declines of 9.1% per year (Sauer et al. 2004). Kentucky Breeding Bird Atlas resulted in confirmed nesting in 7 priority blocks (Palmer-Ball 1996). Partners in Flight estimates a population of 1,800 individuals (see Rosenberg 2004 for assumptions); however, recent studies documented only one breeding pair and a few unpaired males in the state (Ritchison and Hodge 2003).

Habitat / Although this species can occur year round, recent observations are limited to

Life History the breeding season. Bewick's Wrens are encountered in a variety of semi-open habitats. Although evidence suggests that the species formerly inhabited natural forest openings, it is primarily a bird of altered habitats today. These wrens are most conspicuous in rural farmland and settlement, but small numbers also inhabit suburban yards of towns, brushy forest margins, and forest clear-cuts (Palmer-Ball 1996). The most recent nesting record came from a pair utilizing a grill in Scott County (Ritchison and Hodge 2003). Although suitable habitat seems to persist, it is unknown why the species continues to decline. The Appalachian subspecies has most likely been extirpated from the state.

Bewick's Wren

Thryomanes bewickii

Key Habitat condition appears FAIR, except for Appalachian subspecies where

Habitat habitat is likely POOR.

No key habitat to identify; the species will use appropriate habitat in the

western and central part of the state.

Guilds savanna/ shrub-scrub.

Statewide Bewick's Wren.pdf

Map

Conservation Issues

Biological/ consumptive uses

5D Competition from introduced/invasive or native species. Competition from House Wren, Starlings, House Sparrows, Carolina Wrens, and Song Sparrows are all potential competitors

5F Low population densities

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing

- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Valley fills, reclaiming to grasses
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes. Lack of early successional forest

Black Tern	Chlidonias niger
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	X	G4	SXB,S	G4	S 1
			ZN		

G-Trend Decreasing

G-Trend Decline is virtually range-wide, though greater in the U.S. than in Canada

Comment (NatureServe 2004).

S-Trend Unknown

S-Trend

Comment

Habitat / Transient bird that primarily uses reservoir habitat. Will also use larger lakesLife History and rivers and occasionally shallow water wetlands.

Key Habitat conditions are POOR (shallow water wetlands), FAIR (larger lakes andHabitat rivers), and GOOD (reservoir habitat).

No key habitat to identify; the species will use appropriate habitat statewide.

Guilds running water, standing water.

Statewide BlackTern.pdf

Black Tern Chlidonias niger

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).Conversion to by draining of wetlands
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3Q Invasive/exotic plants (including fescue). Potentially by purple loosestrife
- 3T Suppression of disturbance regimes. Wetlands advanced successional stages, and poor habitat

Blackburnian Warbler

Dendroica fusca

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G5	S1S2B	G5	S 1

G-Trend Stable

G-Trend North American Breeding Bird Survey data indicate an increase of 1.0 percent

Comment annually survey-wide from 1966-2003 Sauer et al. 2004). Partners in Flight

North American Landbird Conservation Plan gives population estimate of
5,900,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a breeding bird that occurs in deciduous forests in the Cumberland
 Life History Mountains, especially within the highest elevations (2,800-3,800 feet) of Black
 Mountain in Harlan County. They are most numerous in fairly mature forest
 of maple-beech-basswood associations on the mountain (Palmer-Ball 1996). Its
 habitat in Kentucky is subject to mining and other habitat alterations.

Key Habitat condition is FAIR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Deciduous forests of Black Mountain in Harlan County (fair).

Guilds Cumberland highland forest.

Statewide BlackburnianWarbler.pdf

Map

Conservation Issues

Terrestrial habitat degradation

3H Habitat loss outside of Kentucky

3K Surface mining

3M Timber harvest

Black-crowned Night-heron

Nycticorax nycticorax

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Т	G5	S1S2B	G5	S 1

G-Trend Decreasing

G-Trend Kushlan et al. (2002) lists the species as having apparent population declines.

Comment

S-Trend Decreasing

S-Trend Heronry surveys in 2004 showed declines in active nests of as much as 50% or

Comment more at some sites (Palmer-Ball and Ciuzio 2005). The survey estimated 196 breeding pairs occurred at known heronries throughout the state.

Habitat / Breeding bird that primarily uses reservoir habitat (good), but will also use fishLife History hatcheries as well as larger lakes and rivers (fair) and occasionally shallow water wetlands (poor).

Key Habitat conditions are POOR (shallow water wetlands), FAIR (larger lakes andHabitat rivers), and GOOD (reservoirs).

Key Habitat Locations (and their conditions):

- 1. Islands on the north end of Lake Barkley and Kentucky Lake (fair)
- 2. scattered localities throughout Louisville near Preston Highway (poor) and

Lexington (unknown)

Guilds running water, standing water, urban/suburban.

 ${\bf Statewide} \quad \underline{Black\text{-}crownedNight\text{-}heron.pdf}$

Black-crowned Night-heron

Nycticorax nycticorax

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Biological/ consumptive uses

- 5K Lack of suitable habitat for spawning, nesting, or breeding. sites for nesting colonies
- 5L Parasitism and disease. Potential for parasitism from Eustrongilides spp.

Miscellaneous Mortality Factors

Human disturbance (spelunking, destruction/disturbance of nest sites).Human disturbance at rookeries and foraging areas

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3F Urban/residential development
- 3G Shoreline development

- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

CLASS Aves

Key

Habitat

Black-neck	ed Stilt				Himanto	opus mexicanus	
	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	PS	N	G5	SAB	G5	N	
G-Trend	Increasir	ng					
G-Trend	Breeding	g Bird Survey	s show a sig	gnificant inc	rease of 3.04% s	urvey-wide for the	
Comment	period 19	period 1966-2007 with a relative abundance of 1.91 individuals per route (Sauer					
	et al. 200	08).					
S-Trend	Stable						
S-Trend	Black-ne	ecked stilts fir	rst nested in	Kentucky in	n 1993. Since the	at time, they have	
Comment	nested sp	oradically in	far western	Kentucky v	vhen proper habi	tat conditions are	
	present (Palmer-Ball	2003)				
Habitat /	Black-ne	ecked stilts ge	enerally nest	in flooded	agricultural fields	s along the	
Life	Mississi	ppi and Ohio	Rivers in w	estern Kentı	acky. The sporac	dic nature of this	
History personal	flooding	means that h	abitat may r	ot be availa	ble in all years (l	Palmer-Ball	
	commun	ication).					

Habitat condition throughout Kentucky is POOR for this species.

No key habitat to identify: the species will use appropriate habitat in western

KY.

Guilds standing water.

Statewide Black-neckedStilt.pdf

Map

Conservation Issues

Aquatic habitat degradation

2F Riparian zone removal (Agriculture/development)

2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5B Predation from native species

Siltation and increased turbidity

1B Agriculture. plowing of nesting areas

CLASS Aves

Habitat

Black-thro	ated Green	Warbler	D	endroica virens					
	Federal	Heritage	GRank	SRank	GRank	SRank			
	Status	Status			(Simplified)	(Simplified)			
	N	N	G5	S4B	G5	S4			
G-Trend	Stable								
G-Trend	The Bree	eding Bird Su	irvey shows	a significan	t increase of 1.29	% survey-wide			
Comment	(USA an	(USA and Canada) for the period 1980-2007. Partners in Flight estimates a							
	population	population of 9,600,000 individuals (see Rosenberg 2004 for assumptions).							
S-Trend	Unknow	n							
S-Trend			er of Breedin	g Bird Surv	ev routes exist ir	the southeast part			
Comment	·	Only a limited number of Breeding Bird Survey routes exist in the southeast part							
Comment		of the state; thus, the species is detected only on 5 routes. Analysis of these routes show a nonsignificant increase of 5.4% per year for the period 1966-2007							
	with an a	average of 0.9	95 individua	ls per route	(Sauer et al. 2008	8) . Partners in			
	Flight es	timates a pop	oulation of 2	4,000 indivi	duals (see Rosen	berg 2004 for			
	assumpti	ions).							
Habitat /	Black-th	roated Green	Warblers an	e typically f	found in associate	ion with hemlock			
Life	stands, a	lthough they	are found oc	ecasionally i	n deciduous or n	nixed pine-			
History	hardwoo	d forests. Th	ney are most	numerous in	n fairly mature fo	orest, but will also			
	use regei	nerating seco	nd-growth fo	orests and fo	orest edges (Palm	ner-Ball).			
Key	Habitat o	condition in e	astern Kentu	ucky range i	s FAIR.				

The species will use appropriate habitat in the Cumberland Plateau and

Mountains.

Guilds Cumberland highland forest, upland forest.

Statewide Black_throated_Green_Warbler.pdf

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5M Brood parasitism (Brown-headed Cowbird)
- 5Q Declining prey base. From insecticides

Miscellaneous Mortality Factors

6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Potential loss of habitat due to hemlock woolly adelgid infestation.

- 3G Shoreline development. Riparian corridor removal/development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Loss of forest habitat from mining
- 3M Timber harvest
- 3R Habitat and/or Population Fragmentation. Forest fragmentation

Blue-winged Warbler

Vermivora pinus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S4S5B	G5	S4

G-Trend Unknown

G-Trend North American Breeding Bird Survey data show a non-significant increasing

Comment trend survey-wide of 0.6% during the period 1966-2003 (Sauer et al. 2004).

Partners in Flight North American Landbird Conservation Plan gives population estimate of 390,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Species encountered infrequently on Kentucky Breeding Bird Survey routes.

Comment The average number of individuals per Breeding Bird Survey route for the period 1966-2003 was 1.07. In part due to small sample sizes, trend analysis of these data does not reveal statistically significant results (Palmer-Ball 1996, Sauer et al. 2004). Partners in Flight estimates a population of 39,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / Blue-winged Warblers are typically found in early successional habitats. They
 Life History are most frequent in low, moist areas, but they also can be found on drier slopes. The species formerly used natural forest openings and woodland borders, which may have been rather common because of fire and storm damage.

Today, altered situations, including overgrown fields, reclaimed strip mines, and regenerating forest clear-cuts, provide most nesting habitat. This warbler does not occupy these areas unless a good scattering of small trees, shrubs, and dense herbaceous growth is present. In contrast, the species is typically absent if the ground cover is reduced by grazing or shading from a closed tree canopy (Palmer-Ball 1996).

Key

Habitat condition is UNKNOWN overall in Kentucky, but is likely in FAIR

Habitat

condition.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds

savanna/ shrub-scrub.

Statewide

Blue-wingedWarbler.pdf

Blue-winged Warbler

Vermivora pinus

Conservation Issues

Biological/ consumptive uses

- 5E Hybridization with closely related species. Hybridization with Goldenwinged Warbler (although this threatens Golden-winged Warbler more than it does the Blue-winged Warbler)
- 5M Brood parasitism (Brown-headed Cowbird)

- 3C Lack of newly abandoned farmland
- 3E Livestock grazing. Especially in woods or along edges
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Remining early successional habitat
- 30 Reforestation
- 3T Suppression of disturbance regimes. Loss of early successional habitat

Bobolink	Dolichonyx oryzivorus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S2S3B	G5	S2

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant population

Comment decline in North America in recent decades, particularly in central North

America (Sauer and Droege 1992, NatureServe 2004). Partners in Flight North

American Landbird Conservation Plan gives Global population estimate of

11,000,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend The species was first documented nesting in Kentucky in 1969 and since then

Comment has been reported annually in scattered localities in Central Kentucky. The

atlas survey yielded 5 records in priority blocks in Kentucky (Palmer-Ball 1996)

Habitat / During the breeding season, Bobolinks occur in a variety of grassy habitats. In

Life History Kentucky, the species is found entirely in artificial situations, including

hayfields, pastures, and other unmowed or infrequently mowed fields of grasses and forbs. Very open situations seem to be favored, as is vegetation that is neither especially thick nor closely mowed or grazed (Palmer-Ball 1996). Such

habitat is constantly threatened by mowing practices.

Key Habitat condition is POOR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Bluegrass Region of central Kentucky (fair).

Guilds grassland/agricultural.

Statewide Bobolink.pdf

Bobolink

Dolichonyx oryzivorus

Conservation Issues

Biological/ consumptive uses

5K Lack of suitable habitat for spawning, nesting, or breeding. For nesting

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3Q Invasive/exotic plants (including fescue)

Brown Creeper	Certhia americana
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Е	G5	S1S2B	G5	S 1
			,S4S5		
			N		

G-Trend Unknown

G-Trend It is difficult to get an adequate assessment of population trends range-wide for this species because it shows up infrequently in standard surveys such as Breeding Bird Survey (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimates of 5,400,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend UnknownS-Trend Nesting populations known from only 3 locations (Palmer-Ball 2003).Comment

Habitat / This species winters in a variety of forested and semi-open habitats, especially
Life History mature woodlands. During the breeding season, Brown Creepers occupy
permanently inundated swamp forest dominated by bald cypress and water
tupelo where it builds nests under exfoliating bark, especially of dead trees.
Although originally thought to be restricted to permanently inundated swamp
forests, birds found in Henderson and Union counties were in seasonally

inundated bottomland forest and the margins of open water sloughs. These observations indicate that breeding creepers may be more widespread than formerly believed (Palmer-Ball 1996).

Key

Habitat condition is FAIR (breeding and wintering) overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

- 1. Cypress Creek Swamp in Marshall County (fair)
- 2. Sloughs Wildlife Management Area in Henderson County (good)
- 3. Axe Lake Swamp in Ballard County (good)

Guilds

forested wetland.

Statewide

BrownCreeper.pdf

Brown Creeper Certhia americana

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to by draining of wetland forests
- 3G Shoreline development. Riparian corridor development
- 3M Timber harvest. Of bottomland forests
- 3N Removal of dead trees
- 3R Habitat and/or Population Fragmentation. Requires large blocks of habitat

Buff-breasted Sandpiper

Tryngites subruficollis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G4	SZN	G4	S 3

G-Trend Decreasing

G-Trend Species thought to be in decline in the U.S. but statistical verification is lacking

Comment (Brown et al. 2001).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, wet prairies, floodedLife History agricultural fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat conditions range from POOR (shallow water wetlands, wet prairies) to
 Habitat FAIR (flooded agricultural fields, shoreline, mudflat, and sandbar habitats of larger lakes and rivers).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the

shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli 2004).

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

Statewide <u>Buff-breastedSandpiper.pdf</u>

Buff-breasted Sandpiper

Tryngites subruficollis

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to by draining wetlands
- 3E Livestock grazing. Over-grazing, especially along wetlands
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Canada Warbler	Wilsonia canadensis
Callada Wal Dici	พนายาน และเกาะ

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S3B	G5	S 3

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a survey-wide decrease of

Comment 2.0 percent per year from 1966-2003, with a decrease of 3.4 percent per year from 1980-2003. Partners in Flight North American Landbird Conservation Plan gives population estimate of 1,400,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend The atlas survey yielded 4 records of Canada Warblers in priority blocks, and 1

Comment incidental observation was reported. Although no confirmed records were obtained, the presence of birds throughout the summer on both Cumberland and Black mountains represented probable evidence of breeding (Palmer-Ball 1996).

Habitat / This is a breeding bird found in the higher elevations of the Cumberland
Life History Mountains which are threatened by potential mining. This species uses mesic forests with a dense understory and ground cover (Palmer-Ball 1996; C. Hunter, U.S. Fish and Wildlife Service, pers. comm.). On Cumberland Mountain, it is most often found in association with rhododendron. On the summit of Black Mountain, birds are found in the understory of mature deciduous forest as well

as younger, cut-over forest and forest edge (Palmer-Ball 1996).

Key Habitat condition is FAIR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Black and Cumberland Mountains in Harlan and Bell Counties (good)

Guilds Cumberland highland forest.

Statewide CanadaWarbler.pdf

Canada Warbler Wilsonia canadensis

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5M Brood parasitism (Brown-headed Cowbird)

- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Valley fills
- 3M Timber harvest. Logging for mining and/or timber harvesting, which disrupts contiguous breeding habitat
- 3R Habitat and/or Population Fragmentation

Cerulean Warbler	Dendroica cerulea

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G4	S4S5B	G4	S 4

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant survey-wide

Comment population decline in North America from 1966-2003 of 4.2%. The decline has been most pronounced in the core of the breeding range (Robbins et al. 1992).

Partners in Flight North American Landbird Conservation Plan gives population estimate of 560,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy

and precision ratings).

S-Trend Decreasing

S-Trend Cerulean Warblers are not adequately surveyed by Kentucky Breeding Bird

Comment Survey surveys. The average number of individuals per Breeding Bird Survey route for the periods 1966-91 and 1982-91 was 0.95 and 1.23, respectively (Palmer-Ball 1996). Trend analysis shows a nonsignificant decrease of 6.1% per year for the period 1966-2003 (Sauer et al. 2004). Partners in Flight

estimates a population of 89,000 individuals (see Rosenberg 2004 for

assumptions).

Habitat / This is a breeding bird that uses mature deciduous forests where it forages highLife History in the canopy. The species is encountered most frequently in the western part

of the state in mesic situations, especially bottomland forest. The species will also utilize, especially in the east, mesophytic and subxeric forests of slopes (Palmer-Ball 1996). The species is often associated with small canopy gaps such as along ridges, river corridors, and narrow roads. In the Morehead Ranger District, the species seems to persist in areas where the crowns of trees have been damaged by ice storms. While this warbler is occasionally found in relatively isolated tracts of suitable habitat, it occurs with much greater regularity in extensively forested areas (Palmer-Ball 1996).

Key Habitat condition ranges from POOR (bottomland forest) to GOOD (upland

Habitat forests) overall in Kentucky.

Species will use appropriate habitat statewide as long as large forested tracts are available with some canopy gaps.

Guilds Cumberland highland forest, forested wetland, upland forest.

Statewide CeruleanWarbler.pdf

Cerulean Warbler Dendroica cerulea

Conservation Issues

Aquatic	habitat	degradation
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2F Riparian zone removal (Agriculture/development)

Biological/ consumptive uses

- 5B Predation from native species
- 5D Competition from introduced/invasive or native species. Potential competition with native species
- 5M Brood parasitism (Brown-headed Cowbird)

- 3F Urban/residential development
- 3G Shoreline development. Riparian corridor development
- 3H Habitat loss outside of Kentucky
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Logging for mining
- 3M Timber harvest. Especially species preferred by Cerulean Warbler
- 3R Habitat and/or Population Fragmentation. Needs large tracts of forest

CLASS Aves

Habitat

Chuck-will'	s-widow	Caprimulg	Caprimulgus carolinensis						
	Federal	Heritage	GRank	SRank	GRank	SRank			
	Status	Status			(Simplified)	(Simplified)			
	N	N	G5	S4S5B	G5	S4			
G-Trend	Unknow	Unknown							
G-Trend	Breeding	g Bird Survey	s show a sig	nificant dec	crease of 1.7% su	rvey-wide for the			
Comment	period 19	966-2007 wit	th a relative	abundance o	of 1.35 individual	s per route (Sauer			
	et al. 200	et al. 2008). Partners in Flight estimates a population of 15,000,000 individuals							
	(see Ros	(see Rosenberg 2004 for assumptions).							
S-Trend	Unknow	Unknown							
S-Trend	Breeding Bird Surveys in Kentucky show a significant decrease of 2.6% for the								
Comment of	period 1980-2007 (Sauer et al. 2008). Partners in Flight estimates a population								
	310,400 individuals (see Rosenberg 2004 for assumptions).								
Habitat /	Chuck-w	Chuck-will's-widows are found in semi-open and open habitats with scattered							
Life	tracts of forest. They are usually absent in extensively forested areas. Found								
History	more commonly in drier forests with an open mid- and understory, especially in								
	oak and	oak and hickory forests with scattered cedars or introduced pines (Palmer-Ball							
	1996)	1996)							
Key	Habitat conditions in Kentucky are generally FAIR								

Key Habitat Locations (and their condition):

1. Will use appropriate habitat mostly west of the Cumberland Plateau.

Guilds grassland/agricultural, savanna/ shrub-scrub, upland forest.

Statewide Chuck Wills Widow.pdf

Map

Conservation Issues

Biological/ consumptive uses

5Q Declining prey base. Pesticide use

Miscellaneous Mortality Factors

6A Traffic/road kills

Terrestrial habitat degradation

- 3F Urban/residential development
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

Pesticides

Common Moorhen Gallinula chloropus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	T	G5	S1S2B	G5	S 1

G-Trend Unknown

G-Trend Population estimate and trend information due pending Version 2 of the

Comment Waterbird Plan (Kushlan et al. 2002).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a breeding bird that uses marshes and emergent wetlands.

Life History

Key Habitat conditions in Kentucky are POOR overall.

Habitat

Key Habitat Locations (and their conditions):

- 1. Homestead unit of Peabody Wildlife Management Area
- 2. Paradise Steam Plant in Muhlenberg County
- 3. Sauerheber unit of Sloughs Wildlife Management Area

All in good condition

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

 ${\bf Statewide} \quad \underline{CommonMoorhen.pdf}$

Common Moorhen

Gallinula chloropus

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to by draining of wetlands
- 3G Shoreline development
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3Q Invasive/exotic plants (including fescue). Potentially by phragmites
- 3T Suppression of disturbance regimes. Of wetlands

Common Raven					Corvus corax	
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)

S1S2

G5

S1

G5

G-Trend Increasing

N

T

G-Trend North American Breeding Bird Survey data indicate a significant population
 Comment increase in North America between 1966 and 2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimate of 16,000,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend The species is not encountered on Breeding Bird Survey routes. Population isComment likely stable to increasing, although number of nesting pairs is low.

Habitat / Although ravens have adapted to human presence in some parts of their range,

Life History in Kentucky they are still birds of remote areas. These resident birds are rarely seen away from extensively forested portions of the mountains, where they usually can be found along or near the ridge crests. Although ravens nest and loaf along clifflines and exposed rock outcrops, they are most frequently seen flying along the ridges or soaring overhead. The abundance of suitable nest sites in eastern Kentucky indicates that other factors are responsible for the species's overall scarcity (Palmer-Ball 1996).

Key Habitat condition is FAIR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

- 1. Cumberland Gap National Historic Park (good)
- 2. Cumberland, Black, and Pine Mountain (fair)
- 3. Natural Bridge State Park (good condition)

Guilds caves, rock shelters, and clifflines, Cumberland highland forest, upland forest.

Statewide CommonRaven.pdf

Common Raven Corvus corax

Conservation Issues

Miscellaneous Mortality Factors

6E Illegal killing

- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Logging for mining and timber harvest along clifflines
- 3U Loss, lack and degradation of special and unique microhabitats. Clifflines for nesting

Common Tern	Sterna hirundo
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

G-Trend Increasing

G-Trend Kushlan et al. (2002) lists the species as having an apparent population increase

Comment and gives a population estimate of 300,000 breeders.

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat conditions are POOR (shallow water wetlands) and FAIR (floodedHabitat agricultural fields, shoreline, mudflat, and sandbar habitats of lakes and rivers).

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds running water, standing water.

Statewide CommonTern.pdf

Common Tern Sterna hirundo

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc). Draining of wetlands for agriculture
- 3F Urban/residential development
- 3G Shoreline development. Along reservoirs, lakes, and rivers
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Dickcissel	Spiza americana
Dickelbbei	Spila unici iculu

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S4S5B	G5	S 4

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant population

Comment decline in North America from 1966-2003 of 1.2%, although Sauer et al. (2004)

recommends that such data be viewed with some skepticism. Partners in Flight

North American Landbird Conservation Plan gives population estimate of

22,000,000 in the U.S.and Canada (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Unknown

S-Trend Dickcissels are reported regularly on only about half of Kentucky's Breeding

Comment Bird Survey routes. Trend analysis yields a nonsignificant decrease of 1.7% per

year for the period 1966-2003 and a nonsignificant increase of 3.0% per year

for the period 1980-2003. It is likely that natural variability in the nesting

population is responsible for these trends (Palmer-Ball 1996). The average

number of individuals recorded per Breeding Bird Survey route for 1966-2003

was 4.35 (Sauer et al. 2004). Partners in Flight estimates a population of

110,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / Dickcissels are a Breeding bird that inhabits open habitats with an abundance of

Life History low herbaceous vegetation. Today, natural habitats affording this type of cover have been virtually eliminated, and Dickcissels occur only in artificially created habitats; the species is most frequently found in rural farmland, but it also occurs in other open situations, such as reclaimed strip mines, the unmowed margins of airports, and similarly idle land. Even in areas where they are fairly common, Dickcissels typically are distributed irregularly. Loose colonies are often established in tracts of optimal habitat, while suitable habitat in surrounding areas goes unused, resulting in a very patchy distribution (Whitt 1969). Dickcissels sometimes inhabit grassy fields, but they are most common in habitats with an abundance of forbs, such as fields of clover and alfalfa, as well as well as fields of small grains (especially wheat). Within such areas, territorial males sing from scattered trees, power lines, and tall weed stems (Palmer-Ball 1996).

Key Habitat condition is FAIR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

- 1. Ft. Campbell Military Reservation (good)
- 2. Species will use appropriate habitat west of Cumberland Plateau (fair) as

Dickcissel Spiza americana

well as reclaimed mined habitat in the east (good)

Guilds grassland/agricultural.

Statewide Dickcissel.pdf

Map

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5K Lack of suitable habitat for spawning, nesting, or breeding. For nesting
- 5M Brood parasitism (Brown-headed Cowbird)

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

Poisoning on wintering grounds

Dunlin						Calidris alpina
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	N	G5	SZN	G5	S4

G-Trend Decreasing

G-Trend Brown et al. (2001) lists the species as having been documented to be in decline.

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / Transient bird that uses shallow water wetlands, flooded agricultural fields, andLife History shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat conditions are POOR (shallow water wetlands) and FAIR (floodedHabitat agricultural fields, shoreline, mudflat, and sandbar habitats of lakes and rivers).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkley lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

 $3.\ Mudflats\ and\ sandbar\ areas\ on\ Tennessee,\ Ohio,\ Mississippi,\ and$

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide <u>Dunlin.pdf</u>

Dunlin Calidris alpina

Conservation Issues

Aquatic	habitat	degradation

- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration . Loss of shallow water wetlands
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Converting wetlands
- 3F Urban/residential development
- 3G Shoreline development. Along rivers and reservoirs
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Golden-winged Warbler

Vermivora chrysoptera

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G4	S2B	G4	S2

G-Trend Unknown

G-Trend North American Breeding Bird Survey data indicate a significant decline in the

Comment U.S. of 3.4% and an insignificant increase of 5.0% in Canada for the period

1966-2003 (Sauer et al. 2004). Recent expansion has been to the north and

west and still continues. On the other hand, there has been widespread decline

and even local extinction from areas first colonized about a century ago

(NatureServe 2004). Partners in Flight North American Landbird Conservation

Plan gives population estimate of 210,000 in the U.S. and Canada (see Rich et

al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Kentucky's small nesting population has been poorly documented, making an

Comment assessment of trends difficult (Palmer-Ball 1996).

Habitat / This is a breeding bird typically encountered in early successional habitats with

Life History a predominance of shrubs or small trees. In addition, the presence of a dense

layer of herbaceous vegetation appears to be critical, and the species is not

found in areas where the ground cover is grazed or the tree canopy is closed to

the point that weeds and grasses are substantially reduced. In Kentucky the species is generally a bird of drier slopes that have been cleared in the recent past, including reverting clear-cuts and old fields, reclaimed strip mines, and utility corridors. Natural fire or storm damage may result in the creation of suitable habitat, and the bird also has been reported in such areas (Palmer-Ball 1996).

Key

Habitat condition is FAIR overall in Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Reclaimed Surface Mines of Bell, Harlan, and Whitley Counties (good) (L.

Patton, pers. comm.)

Guilds

Cumberland highland forest, savanna/ shrub-scrub.

Statewide

Golden-wingedWarbler.pdf

Golden-winged Warbler

Vermivora chrysoptera

Conservation Issues

Biological/ consumptive uses

- 5E Hybridization with closely related species. Hybridization with Bluewinged Warbler
- 5M Brood parasitism (Brown-headed Cowbird)

- 3C Lack of newly abandoned farmland
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky. Deforestation on wintering grounds.
- 3K Surface mining. Remining
- 30 Reforestation
- 3T Suppression of disturbance regimes. Of early successional habitat

Grasshopper Sparrow

Ammodramus savannarum

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	N	G5	S4B	G5	S4

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant annual

Comment population decline of 3.9% per year in North America between 1966 and 2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 14,000,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Decreasing

S-Trend North American Breeding Bird Survey data show a significant decrease of 6.5%

Comment per year for the period 1966-2003, but a nonsignificant decrease of 1.9% per year for the period 1980-2003. The average number of individuals per Breeding Bird Survey route for the period 1966-2003 was 2.49 (Sauer et al. 2004).

Partners in Flight estimates a population of 84,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / The Grasshopper Sparrow occurs in natural grasslands throughout parts of its
Life History range, but it is restricted to altered situations in Kentucky. In Kentucky, this
breeding species inhabits grasslands that are dominated by relatively sparse or
short vegetation, and they are typically absent if the vegetation is tall and thick.

Consequently, they are most numerous in lightly grazed pastures, hayfields on dry slopes and poor soil, reclaimed surface mines, and other situations in which vegetation is not profuse. Small numbers also occur in fallow row-crop fields where grassy vegetation is beginning to recolonize bare soil (Palmer-Ball 1996). Pasture and hayfield habitat are generally in fair condition in that they are subject to mowing and grazing; reclaimed mine lands are in good condition since soil conditions tend to limit succession.

Key Habitat condition ranges from FAIR (pasture and haylands) to GOOD

Habitat (reclaimed mines) overall in Kentucky.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds grassland/agricultural.

Statewide GrasshopperSparrow.pdf

Grasshopper Sparrow

Ammodramus savannarum

Conservation Issues

D' 1 ' 1/	, •	
B1010g1cal/	consumptive	uses

- 5B Predation from native species. Especially when overgrazed
- 5M Brood parasitism (Brown-headed Cowbird). Levels typically low

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing. Light/moderate grazing beneficial, but overgrazing is not
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation
- 3Q Invasive/exotic plants (including fescue)
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes

Great Egret	t					Ardea alba		
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	E	G5	S1B	G5	S 1		
G-Trend	Increasir	ng						
G-Trend	North A	merican popu	ılation estim	ate: >180,00	00 breeding birds	s (Kushlan et al.		
Comment	2002).							
S-Trend	Increasing							
S-Trend	State pop	pulation estin	nate: 147 bro	eeding pairs	(Palmer-Ball and	d Ciuzio 2004).		
Comment								
Habitat /	This is a	breeding bire	d that prima	rily uses flo	odplain forests a	nd bottomland		
Life History hardwood forests, but will also nest and feed in association with reservoir						th reservoir		
	habitat.							
Key	Habitat o	conditions are	e POOR (flo	odplain and	bottomland hard	lwood forests)		
Habitat	and GOO	and GOOD (reservoirs).						
Guilds	·				e appropriate hat	Ç		
Gullus	Lineigen	it and sindb-(ioninaica w	cuanus, 1010	cocca wettand, Iu	mining water,		

standing water.

 $\underline{GreatEgret.pdf}$

Statewide

Great Egret Ardea alba

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

- 5K Lack of suitable habitat for spawning, nesting, or breeding
- 5K Lack of suitable habitat for spawning, nesting, or breeding. on islands and reservoirs

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

- 3F Urban/residential development
- 3G Shoreline development. Reservoirs, lakes and rivers
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Greater Prairie-chicken

Federal

Status

Heritage

Status

Tympanuchus cupido

SRank

(Simplified)

	PS	X	G4	SX	G4	N	
G-Trend	Decreasing	Ţ					
G-Trend	North Ame	erican Bree	ding Bird Su	ırvey data sh	ows nonsignifica	ant survey-wide	
Comment	declines of 4.1% for the period 1966-2003 and declines of 6.0% for the period						
	1980-2003 (Sauer et al. 2004). Partners in Flight North American Landbird						
	Conservation Plan gives population estimate of 690,000 in the U.S. (see Rich et						
	al. 2004 fo	or accuracy	and precision	on ratings).			

GRank

SRank

GRank

(Simplified)

S-Trend Unknown

S-Trend Currently extirpated from Kentucky. Plans to examine efficacy ofComment reintroduction of species underway.

Habitat / Species prefers tall grasslands (prairie), pastures, and hayfields (NatureServeLife History 2004).

Key Habitat condition throughout potential Kentucky range is FAIR.

Habitat

Key Habitat Locations (and their condition):

1. Ft. Campbell Military Reservation (good if current grassland management practices upheld)

Guilds grassland/agricultural.

Statewide <u>GreaterPrairie-chicken.pdf</u>

Map

Conservation Issues

Terrestrial habitat degradation

3H Habitat loss outside of Kentucky

Unknown factors/variables

7A Unknown threats

CLASS Aves

Greater Sca	nup					Aythya marila			
	Federal	Heritage	GRank	SRank	GRank	SRank			
	Status	Status			(Simplified)	(Simplified)			
	N	N	G5	S2S3N	G5	S2			
G-Trend	Decreasi	Decreasing							
G-Trend	Population	Populations of both scaup species have seen dramatic declines in recent years.							
Comment	Breeding	Breeding numbers of scaup have declined 35% from 6.4 million in 1980 to 4.2							
declines	million i	n 2009 (U.S,	Fish and W	ildlife Servi	ce 2009). Reaso	ns for these			
	are still l	argely not ur	nderstood.						
S-Trend	Decreasi	Decreasing							
S-Trend	Little da	Little data exists on wintering populations of scaup. Mid-winter waterfowl							
Comment unpublished	survey d	survey data indicates a 85% decline in the 10-year average (USFWS							
	data)								
Habitat /	Scaup ar	Scaup are generally open water birds being found in large reservoirs and Rivers							
Life	statewid	statewide.							
History									
Key	Habitat o	condition thro	oughout Ken	tucky are G	OOD for this spe	ecies.			
Habitat									
	No key l	nabitat to ide	ntify: the spe	ecies will us	e appropriate hab	oitat statewide.			
Guilds	Large riv	vers in currer	nt, Large rive	ers in slackw	ater.				

Statewide <u>GreaterScaup.pdf</u>

Map

Conservation Issues

Aquatic habitat degradation

- 2E Stream channelization/ditching
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5L Parasitism and disease

Terrestrial habitat degradation

- 3G Shoreline development
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

CLASS AVES

Henslow's Sparrow Ammodramus henslowii						amus henslowii
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	S	G4	S3B	G4	S3
G-Trend	Decreasi	ng				
G-Trend	One of the fastest declining songbirds in North America. It has declined					
Comment	significantly across range and can no longer be considered common anywhere					
	(NatureServe 2004). North American Breeding Bird Survey data indicate a large					

and statistically significant decline of 8.6% per year survey-wide for the period 1966-2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 79,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Numbers of birds in Kentucky fluctuate from year to year, perhaps in response

Comment to habitat availability. The atlas survey yielded 24 records of Henslow's

Sparrows in priority blocks, and 10 incidental observations were reported

(Palmer-Ball 1996). Partners in Flight estimates a population of 2,600

individuals (see Rosenberg 2004 for assumptions).

Habitat / This is a breeding bird typically found in open habitats dominated by thick,

Life History grassy vegetation. The species favors areas that have been neglected for a year

or two and have accumulated a layer of dead plant material at the base of the

current year's growth. The lack of disturbance also allows for the presence of

dead week stalks, young saplings, and briars, which are used as singing perches

(Wiley and Croft 1964 in Palmer-Ball 1996). Henslow's Sparrows may have

occurred at least locally in the native prairies of the East Gulf Coastal Plain and

the Highland Rim, but documentation of their presence in such habitat is absent.

Today native grasslands have been virtually eliminated, and the species occurs

entirely in altered situations. Although fallow fields and pastures provide most

of the habitat used by Henslow's Sparrows in Kentucky, the species is also

found on reclaimed surface mines, the margins of airfields, and other unmowed

grassy habitats. Hayfields of tall thick grasses like orchard grass and timothy

are also used, although mowing results in abandonment (Palmer-Ball 1996).

Key Habitat condition throughout Kentucky range is FAIR.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Henslow's Sparrow

Ammodramus henslowii

Guilds grassland/agricultural.

Statewide Henslow'sSparrow.pdf

Map

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5K Lack of suitable habitat for spawning, nesting, or breeding. For nesting

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes. Mowing regimes for haying operations (too early destroys nests/eggs/nestlings and too frequent removes litter buildup preferred by species)
- 3C Lack of newly abandoned farmland. Lack of newly abandoned farmland (stage before saplings and shrubs enter)
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing. >10 head of cattle per 20 acres is too intense
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3O Reforestation
- 3R Habitat and/or Population Fragmentation. Habitat Fragmentation: rarely

- found on tracts <100 acres
- 3S Fire suppression/fire regime management. Short-term rotation removes litter buildup preferred by species
- 3T Suppression of disturbance regimes

Hooded Merganser

Lophodytes cucullatus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G5	S1S2B	G5	S 1
			,S3S4		
			N		

G-Trend Stable

G-Trend NatureServe 2004

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a breeding bird that uses shallow water sloughs and ponds of floodplain

Life History forests with cavity trees. Non-breeding birds will use a variety of wetland

habitats, including reservoirs, marshes, sloughs and ponds.

Key Habitat conditions are POOR (shallow water areas of floodplain forests,

Habitat marshes), FAIR (sloughs and ponds), and GOOD (reservoirs).

No key habitat to identify; the species will use appropriate habitat statewide.

Guilds Emergent and shrub-dominated wetlands, forested wetland, running water,

standing water.

 ${\bf Statewide} \quad \underline{HoodedMerganser.pdf}$

Hooded Merganser

Lophodytes cucullatus

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5K Lack of suitable habitat for spawning, nesting, or breeding. cavities for nesting

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

 Conversion to, through loss of wetlands and potential nest trees
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Loss of bottomland hardwood forests with cavity trees
- 3N Removal of dead trees. Nest trees
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Horned Grebe	Podiceps auritus
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S4

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data gives a significant (p=0.00) survey-

Comment wide decrease of -4.7% per year from 1980-2003 (Sauer et al. 2004).

Population estimate due pending Version 2 of the Waterbird Plan (Kushlan et

al. 2002).

S-Trend Unknown

S-Trend

Comment

Habitat / Wintering bird that primarily uses reservoir habitat but will occasionally useLife History smaller wetlands.

Key Habitat conditions are GOOD (reservoirs) and UNKNOWN (smaller

Habitat wetlands).

No key habitat to identify; the species will use appropriate habitat statewide.

Guilds running water, standing water.

Statewide HornedGrebe.pdf

Map

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Interior Least Tern

Sterna antillarum athalassos

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
LE	E	G4T2Q	S2B	G2	S2

G-Trend Increasing

G-Trend Population numbers are improving (NatureServe 2004).

Comment

S-Trend Decreasing

S-Trend Kentucky Department of Fish and Wildlife Resource surveys show that the

Comment Ohio River population is decreasing; however, the Mississippi River

population is increasing (J. Rumancik, pers. comm).

Habitat / Specializes in nesting on sand bars on Ohio

Key Habitat Condition in Kentucky is POOR due to ephemeral nature of habitat

Habitat substrate and dramatic water fluctuations.

Key Habitat Locations (and their conditions):

1. Isolated sand bars and mudflats on lower Ohio River and Mississippi River (poor)

Guilds running water.

Statewide <u>InteriorLeastTern.pdf</u>

Interior Least Tern

Sterna antillarum athalassos

Conservation Issues

Aquatic habitat degradation

- 2A Navigational dredging/Commercial dredging. Dredging of sandbars
- 2E Stream channelization/ditching
- 2G Water level fluctuations. Loss of natural flooding regime on major river systems led to loss of habitat
- 2N Eutrophication (eg. of wetlands)

Biological/ consumptive uses

- 5B Predation from native species. During nesting
- 5K Lack of suitable habitat for spawning, nesting, or breeding

Miscellaneous Mortality Factors

- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). Of nests
- 6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Flooding can destroy nests or delay nesting

- 3G Shoreline development. Habitat alteration (river flooding, development).Development along beaches and sandbars.
- 3H Habitat loss outside of Kentucky
- 3T Suppression of disturbance regimes. Remaining habitat threatened by

succession

3U Loss, lack and degradation of special and unique microhabitats. Sand bars and other sandy areas for nesting

Kentucky Warbler

Oporornis formosus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S5B	G5	S 5

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant survey-wide

Comment decline averaging 1.0% per year for the period 1966-2003 (Sauer et al. 2004).

Partners in Flight North American Landbird Conservation Plan gives population estimate of 1,100,000 in the U.S. (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Despite their relative abundance, Kentucky Warblers are not reported in large

Comment numbers on most Kentucky Breeding Bird Survey routes. Trend analysis

numbers on most Kentucky Breeding Bird Survey routes. Trend analysis shows a nonsignificant increase of 0.3% per year for the period o1966-2003 and a nonsignificant decrease of 0.3% per year for the period 1980-2003. The average number of individuals per Breeding Bird Survey route for the period 1966-2003 was 2.78 (Palmer-Ball 1996). Partners in Flight estimates a population of 95,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / This is a breeding bird of forests with a moderate to dense shrub layer.Life History Although the species occurs predominantly in deciduous forest, mixed forest types with pines or hemlocks are also used. A great variety of mesic to

subxeric forests is inhabited, although more xeric forests are often avoided, apparently because of the lack of a well-developed shrub layer. Unlike several other ground-nesting warblers, the Kentucky also occurs regularly in bottomland forests along major river floodplains, apparently nesting successfully despite periodic flooding (Palmer-Ball 1996).

Key Habitat condition throughout potential Kentucky range is UNKNOWN, but

Habitat likely FAIR depending on the amount of shrub-layer available.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds upland forest.

Statewide KentuckyWarbler.pdf

Map

Kentucky Warbler

Oporornis formosus

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5M Brood parasitism (Brown-headed Cowbird)

Point and non-point source pollution

4A Acid mine drainage other coal mining impacts

- 3E Livestock grazing
- 3F Urban/residential development
- 3G Shoreline development. Riparian corridor development
- 3H Habitat loss outside of Kentucky. Deforestation on wintering grounds
- 3K Surface mining. Valley fills
- 3M Timber harvest
- 3R Habitat and/or Population Fragmentation. Forest fragmentation
- 3W Cervid over-abundance. Grazing by deer

Rallus elegans

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	E	G4G5	S1B	G4	S 1

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data for 1980-2003 indicate a significant

Comment 9.9 % annual decline survey-wide, although there are statistical problems with

this analysis and the Breeding Bird Survey is not well suited for monitoring this

species (Sauer et al. 2004, NatureServe 2004). Population estimate due

pending Version 2 of the Waterbird Plan (Kushlan et al. 2002).

S-Trend Unknown

S-Trend

Comment

Habitat / Transient and breeding birds use dense, emergent wetlands and marshy edges ofLife History lake and ponds dominated by cattails and sedges.

Key Habitat Condition in Kentucky is POOR (emergent wetlands) or UNKNOWNHabitat (marshy edges of lakes and ponds).

Key Habitat Locations (and their conditions):

1. Long Point unit of Reelfoot Lake National Wildlife Refuge (unknown)

2. Clear Creek drainage (unknown)

Guilds Emergent and shrub-dominated wetlands.

Statewide <u>KingRail.pdf</u>

Map

King Rail Rallus elegans

Conservation Issues

Aquatic h	abitat d	degradation	ı
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- 2G Water level fluctuations
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

- 4A Acid mine drainage other coal mining impacts
- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to, draining of wetlands
- 3F Urban/residential development. Also recreational development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3Q Invasive/exotic plants (including fescue). Potentially by phragmites

3T Suppression of disturbance regimes. Of wetlands

Lark Sparrow

Chondestes grammacus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G5	S2S3B	G5	S2

G-Trend

Decreasing

G-Trend

North American Breeding Bird Survey data indicate a significant annual

Comment

population decline in North America of 2.9% during the period 1966-2003, and a decline of 1.6% for the period 1980-2003, although the data set has some deficiencies (Sauer et al. 2004). No significant increases have been recorded in any region or jurisdiction (NatureServe December 6, 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimate of 9,900,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend

Unknown

S-Trend

Comment

North American Breeding Bird Survey routes do not sufficiently detect the species in Kentucky (Sauer et al. 2004). Breeding Bird Atlas coverage was also insufficient to detect most nesting Lark Sparrows and the species was recorded in only 5 priority blocks. Kentucky's placement along the eastern edge of the species' over nesting range probably explains its low density (Palmer-Ball 1996).

Habitat /

This breeding bird is encountered in semi-open and open habitats with sparse **Life History** ground cover. Although they have been found in natural cedar glades and prairie openings, these sparrows are most often observed in altered habitats today. The species occurs most frequently in rural farmland, where it typically inhabits well-grazed pastures with patches of bare ground or rocks, as well as scattered trees. Suitable nesting habitat appears to exist in abundance in much of central and western Kentucky, indicating that the population is probably not limited by habitat availability (Palmer-Ball 1996).

Key

Habitat condition throughout Kentucky range is FAIR.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide (mostly west of the Cumberland Plateau).

Guilds

grassland/agricultural.

Statewide

LarkSparrow.pdf

Map

Lark Sparrow

Chondestes grammacus

Conservation Issues

Biological/ consumptive uses

5M Brood parasitism (Brown-headed Cowbird)

- 3B Mowing regimes. Mowing (removes overhead cover and promotes thick
- 3D Switch to cleaner agricultural practices
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3S Fire suppression/fire regime management. Fires too infrequent or absent to promote bare ground

obrychus exilis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Т	G5	S1S2B	G5	S 1

G-Trend Unknown

G-Trend Population estimate and trend information due pending Version 2 of the

Comment Waterbird Plan (Kushlan et al. 2002).

S-Trend Unknown

S-Trend

Comment

Habitat / Breeding bird that uses dense, emergent marshes with patches of open water,

Life History but will also use lake and pond edges with cattails and sedges for stop over

habitat.

Key Habitat condition ranges from POOR (emergent marshes) to FAIR (lake and

Habitat pond edges).

No key habitat to identify; the species will use appropriate habitat where available range wide.

Guilds Emergent and shrub-dominated wetlands, standing water.

Statewide <u>LeastBittern.pdf</u>

Least Bittern Ixobrychus exilis

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration . Loss of dense emergent shallow water wetlands
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

- 4A Acid mine drainage other coal mining impacts
- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Conversion to, draining of wetlands
- 3F Urban/residential development. Also recreational development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Least Flycatcher

Empidonax minimus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	E	G5	S1B	G5	S 1

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data show significant annual survey-

Comment wide declines of 1.1% from 1966-2003 and declines of 1.4% from 1980-2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimate of 14,000,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Breeding Bird Atlas work recorded only probable records in 2 priority blocksComment (Palmer-Ball 1996).

Habitat / This is a breeding bird of open woodland and brushy areas, forest borders,
Life History thinned woodland, tall second growth; it will nest in poplar woodland,
deciduous scrub, forest edge, parks, old orchards, roadside shade trees, and
gardens, usually in crotch or on limb of tree (often deciduous) or shrub, often 36 m above ground (NatureServe 2004). In Kentucky, it uses various forest
habitat types, requiring early successional phase.

Key Habitat condition is UNKNOWN for this species..

Habitat

Key Habitat Locations (and their condition):

1. Early successional forest of Cumberland Mountains (unknown), especially

Black Mountain.

Guilds Cumberland highland forest, savanna/ shrub-scrub.

Statewide <u>LeastFlycatcher.pdf</u>

Map

Conservation Issues

Terrestrial habitat degradation

3T Suppression of disturbance regimes

Unknown factors/variables

7A Unknown threats

CLASS Aves

Lesser Scau	ıp					Aythya affinis	
	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	N	N	G5	S4N	G5	S4	
G-Trend	Decreasi	ing					
G-Trend	Populati	ons of both s	caup species	s have seen o	dramatic declines	s in recent years.	
Comment	Breeding numbers of scaup have declined 35% from 6.4 million in 1980 to 4.2						
declines	million in 2009 (U.S, Fish and Wildlife Service 2009). Reasons for these						
	are still largely not understood.						
S-Trend	Decreasing						
S-Trend	Little da	Little data exists on wintering populations of scaup. Mid-winter waterfowl					
Comment unpublished	survey data indicates a 85% decline in the 10-year average (USFWS						
	data)						
Habitat /	Scaup are generally open water birds being found in large reservoirs and Rivers						
Life	statewide.						
History							
Key	Habitat condition throughout Kentucky is GOOD for this species.						
Habitat							
	No key l	nabitat to ide	ntify: the spe	ecies will us	e appropriate hab	pitat statewide.	
Guilds	Large riv	vers in currer	nt, Large rive	ers in slackw	ater.		

Statewide <u>LesserScaup.pdf</u>

Map

Conservation Issues

Aquatic habitat degradation

- 2E Stream channelization/ditching
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5L Parasitism and disease

Terrestrial habitat degradation

- 3G Shoreline development
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

CLASS AVES

Lesser Yello	owlegs					Tringa flavipes
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	N	G5	SZN	G5	S4
G-Trend	Decreasi	ng				
G-Trend	Species 1	has been docu	umented to b	e in decline	e (Brown et al. 20	001).
Comment						

S-Trend Unknown

S-Trend

Comment

Habitat / Transient bird that uses shallow water wetlands, flooded agricultural fields, andLife History shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIR

Habitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

1. Transient lakes in Warren (good) and Christian (unknown) counties

2. Shoreline of Kentucky and Barkley lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli 2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and Cumberland Rivers

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, running water, standing water.

Statewide <u>LesserYellowlegs.pdf</u>

Map

Lesser Yellowlegs Tringa flavipes

Conservation Issues

riqualic madrial actination	Aquatic	habitat	degradation
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Loss/alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration . Loss of wetlands
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).
 - Converting wetlands to agriculture
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Little Blue Heron	Egretta caerulea
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	E	G5	S1B	G5	S 1

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant population

Comment decline survey-wide from 1980-2003 of 3.0% (Sauer et al. 2004).

S-Trend Increasing

S-Trend Population seems to be increasing but is limited to one breeding site with a

Comment small sample size (Palmer-Ball, Kentucky State Nature Preserves Commission,

pers. comm.). Heronry surveys in 2004 estimated a population of 12 or more

breeding pairs (Palmer-Ball and Ciuzio 2004).

Habitat / This is a breeding bird that nests in shallow water wetlands with shrubby

Life History habitat.

Key Habitat conditions are POOR (shallow water wetlands) overall.

Habitat

Key Habitat Locations (and their conditions):

1. Island on the north end of Lake Barkley (good).

Guilds forested wetland, running water, standing water.

Statewide <u>LittleBlueHeron.pdf</u>

Map

Little Blue Heron Egretta caerulea

Conservation Issues

Aquatic	habitat	degrad	lation
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- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding and breeding sites

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Loggerhead Shrike

Lanius ludovicianus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	N	G4	S4B,S	G4	S4
			4N		

G-Trend Decreasing

G-Trend Breeding Bird Survey data for 1980-2003 indicate significant declines of 2.6%

Comment annually. Regionally, the declines were 3.6% annually for the eastern region,

2.4% annually for the central region, and 1.4% annually for the west (Sauer et

al. 2004). Partners in Flight North American Landbird Conservation Plan gives

Global population estimate of 4,200,000 (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Decreasing

S-Trend The decline in shrikes has been documented by Breeding Bird Survey data in

Comment central and western Kentucky (Palmer-Ball 1996). Although sample size is

quite low, trend analysis of these data shows a highly significant decrease of

7.0% per year for the period 1966-2003 and a significant decrease of 9.6% per

year for the period 1980-2003. The average number of individuals per Breeding

Bird Survey route for 1966-2003 was 0.84. Partners in Flight estimates a

population of 15,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / The Loggerhead Shrike is a resident bird of open and semi-open habitats, being

Life History only rarely reported in areas of extensive forest. The species seems to favor areas with short or sparse ground cover, usually avoiding habitats dominated by tall, thick vegetation. In Kentucky shrikes are most frequently encountered in rural farmland, where they forage primarily in bare fields, pastures, mowed hayfields, yards, and roadsides. In addition, the species can be found in developed habitats, including airports, industrial parks, and rural roadway corridors and residential areas (Palmer-Ball 1996).

Key Habitat condition ranges from FAIR.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide (mostly west of the Cumberland Plateau).

Guilds grassland/agricultural.

Statewide LoggerheadShrike.pdf

Map

Loggerhead Shrike

Lanius ludovicianus

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Nest site availability

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain).

 Pesticides/Herbicides, mostly by reducing food availability
- 3Q Invasive/exotic plants (including fescue)
- 3R Habitat and/or Population Fragmentation
- 3T Suppression of disturbance regimes. Of openlands to forest

Long-eared Owl	Asio otus
Lung-carea Owi	Asio oius

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	E	G5	S1B,S	G5	S 1
			1S2N		

G-Trend Unknown

G-Trend Trends are difficult to ascertain and population trends are unknown

Comment (NatureServe 2004).

S-Trend Unknown

S-Trend Species occurrence is not well documented and only one nesting record exists

Comment for the state (Palmer-Ball 2003).

Habitat / Long-eared owls are considered a resident of the native prairies of Kentucky. It

Life History is Known to roost in evergreen trees during the day (Palmer-Ball 2003).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Peabody Wildlife Management Area for breeding habitat (unknown);

otherwise, can occur in appropriate habitat range wide..

Guilds savanna/ shrub-scrub.

Statewide <u>Long-earedOwl.pdf</u>

Map

Conservation Issues

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Terrestrial habitat degradation

3H Habitat loss outside of Kentucky

Unknown factors/variables

7A Unknown threats

Louisiana Waterthrush

Seiurus motacilla

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S5B	G5	S 5

G-Trend Stable

G-Trend Overall population levels are believed to be stable in Canada and the U.S., with

Comment local declines due to habitat loss and degradation (McCraken 1991 in

NatureServe December 6, 2004). North American Breeding Bird Survey shows a slight but nonsignificant survey-wide increase during the period 1966-2003 of 0.8% per year (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 260,000 in the U.S. (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Louisiana Waterthrushes are typically reported in small numbers on Kentucky

Comment Breeding Bird Survey routes. In part due to small sample sizes, trend analysis

of these data does not reveal statistically significant results. (Palmer-Ball 1996).

The average number of individuals per Breeding Bird Survey route for 1966-

2003 was 0.42 (Sauer et al. 2004). Partners in Flight estimates a population of

18,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / In eastern and central Kentucky, this breeding bird is usually encountered along

Life History hills and streams with steep to moderate gradients, but it is fairly widespread along slow-moving creeks and swampy areas with standing water in the western part of the state. The Louisiana Waterthrush may also occur in woodlands rather far from permanent water, especially along stream drainages that are dry for most of the year. Louisiana Waterthrushes seem to avoid larger streams, perhaps because of the magnitude of flooding that occurs regularly enough to preclude successful nesting. While the birds are sometimes encountered foraging along narrow forested riparian corridors through otherwise cleared land, it appears that they do not use streams for nesting unless there is a tract of forest along at least one side (Palmer-Ball 1996).

Key Habitat condition is FAIR throughout the state.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds forested wetland, running water, standing water.

Louisiana Waterthrush

Seiurus motacilla

Statewide LouisianaWaterthrush.pdf

Map

Conservation Issues

Aquatic habitat degradation

- 2E Stream channelization/ditching
- 2F Riparian zone removal (Agriculture/development)
- 2M Valley fills

Point and non-point source pollution

4A Acid mine drainage other coal mining impacts

- 3G Shoreline development. Riparian corridor removal/development
- 3H Habitat loss outside of Kentucky
- 3K Surface mining. Logging along streams for mining
- 3M Timber harvest. Logging for mining (especially along streams)
- 3R Habitat and/or Population Fragmentation. Forest fragmentation

Mississippi Kite

Ictinia mississippiensis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S2B	G5	S 2

G-Trend

Unknown

G-Trend

Comment

North American Breeding Bird Survey data from 1980-2003 indicate a non-significant annual population decline of 0.7% throughout its range (Sauer et al. 2004). Parker and Ogden (1979) offer that there is no apparent reason why populations should not continue to increase in both the East and West. Suitable nesting habitat is available in both regions and nesting kites easily tolerate human disturbance. However, in areas where nesting habitat is very localized, disturbance may have drastic long-term impact in that entire region (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 190,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend

Unknown

S-Trend

Comment

Breeding is not well documented in the state and nesting records are limited to only a few records (Palmer-Ball 2003). The species proved to be very difficult to confirm as a nesting bird during the atlas survey, and there was only one report for confirmed breeding (Palmer-Ball 1996). Partners in Flight estimates a population of 160 individuals (see Rosenberg 2004 for assumptions), although

actual populations are most likely much lower.

Habitat / This breeding bird primarily occurs in floodplain areas where tracts of
Life History bottomland forest are intermixed with or adjacent to farmland. Such habitat is in fair condition in that they are threatened by deforestation. These kites typically nest within tracts of fairly mature to mature forest, although they sometimes build along an isolated corridor of large trees (Palmer-Ball 1996).
Probably nests at scattered localities throughout the Mississippi and lower
Ohio River floodplains of the Jackson Purchase (Palmer-Ball 2003). Breeding has been documented at the Ballard Wildlife Management Area in Ballard
County and at Reelfoot Lake National Wildlife Refuge in Fulton County
(Palmer-Ball 2003, H. Chambers, pers. comm.).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

- Bottomland hardwood forests along the Mississippi and lower Ohio
 floodplains in Fulton, Hickman, Carlisle, and Ballard Counties (unknown)
- 2. Reelfoot Lake National Wildlife Refuge (good)

Mississippi Kite

Ictinia mississippiensis

Guilds forested wetland.

Statewide MississippiKite.pdf

Map

Conservation Issues

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Timber harvesting, especially bottomland hardwoods and riparian habitats
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Northern Bobwhite

Colinus virginianus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	N	G5	S5	G5	S 5

G-Trend

Decreasing

G-Trend

North American Breeding Bird Survey data indicate that, from 1966-2003,

Comment

populations underwent a significant rangewide decline of -3.0% per year (Sauer et al. 2004). Significant declines occurred in nearly every state within their geographic range. The rate of decline has increased through time (NatureServe 2004). The species has been nearly extirpated from Ontario, Canada (Page and Austen 1994 in NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives Global population estimate of 9,200,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend

Decreasing

S-Trend

Comment

Kentucky Department of Fish and Wildlife Resources mail carrier survey shows a declining trend over a greater than 40 year period of about 1.3% per year. Additionally, Breeding Bird Survey trend analysis reveals a significant decrease of 2.5% per year for the period 1966-2003 and a significant decrease of 2.8% per year for the period 1980-2003. The average number of individuals per Breeding Bird Survey route for the period 1966-2003 was 21.28 (Sauer et al. 2004). Partners in Flight estimates a population of 190,000 individuals (see

Rosenberg 2004 for assumptions).

Habitat / This is a resident species that uses a great variety of semi-open and open

Life History habitats. Although the species is found in a few naturally occurring situations, such as patches of remnant prairie, today it is primarily a bird of altered habitats. Northern bobwhite are most frequent in rural farmland that has a good supply of fencerows, brushy borders, and other patches of dense cover. In contrast, numbers are much lower in intensively managed farmland, especially where fescue is the predominant grass. Substantial numbers also occur in a variety of other habitats, including reclaimed surface mines, abandoned homesites, and young pine plantations (Palmer-Ball 1996).

Key Habitat condition is generally POOR for Kentucky.

Habitat

Key Habitat Locations (and their condition):

- 1. Peabody Wildlife Management Area
- 2. West Kentucky Wildlife Management Area
- 3. Ft. Campbell Military Reservation
- 4. McLean, Webster, and Graves counties

Northern Bobwhite

Colinus virginianus

Guilds savanna/ shrub-scrub.

Statewide NorthernBobwhite.pdf

Map

Conservation Issues

Biological/ consumptive uses

5B Predation from native species

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Lack of timber harvest
- 3Q Invasive/exotic plants (including fescue)
- 3R Habitat and/or Population Fragmentation
- 3W Cervid over-abundance. Over-browsing by deer

Northern Harrier						Circus cyaneus
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	T	G5	S1S2B	G5	S1
				,S4N		

G-Trend Unknown

G-Trend The Breeding Bird Survey is not the best survey method for this generally

Comment sparse raptor, but where data are credible, trends are mixed (NatureServe 2004;

Sauer et al. 2004). For the U.S., trend analysis shows nonsignificant declines of

0.6% from 1966-2003 (Sauer et al. 2004). For Canada, trends show a

significant annual decline of -4.6% from 1967-2000 (Downes 2003). Partners in

Flight North American Landbird Conservation Plan gives Global population

estimate of 1,300,000 (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Breeding has been confirmed in only a few counties. During the atlas survey,

Comment birds were recorded in only 6 priority blocks (Palmer-Ball 1996).

Habitat / These ground-nesting resident birds inhabit reclaimed mines within the first few

Life History years after completion of reclamation. These areas are restored approximately

to natural contour and reseeded to grasses and forbs. In most areas, trees are

also planted during reclamation, and the harriers probably use the mines only

for a limited number of years before woody growth begins to predominate. For

this reason their distribution is and may always be somewhat local and temporary, shifting to new areas as prime habitat becomes available (Palmer-Ball 1996). Such habitat, although it may provide good nesting habitat, nest success has been found to be relatively low (21.7%), such as on Peabody Wildlife Management Area (Vukovich 2000).

Key

Habitat condition is generally FAIR for Kentucky.

Habitat

Key Habitat Locations (and their condition):

 Reclaimed mine lands on Peabody Wildlife Management Area in Ohio and Muhlenburg Counties (fair).

Guilds

Emergent and shrub-dominated wetlands, grassland/agricultural.

Statewide

NorthernHarrier.pdf

Northern Harrier Circus cyaneus

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes. Mowing/haying regimes (too early and frequent)
- 3E Livestock grazing
- 3F Urban/residential development. Draining of wetlands and moist grasslands for development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation. Reforestation through succession
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3R Habitat and/or Population Fragmentation. Need large tracts of habitat to breed
- 3T Suppression of disturbance regimes

Northern P	intail					Anas acuta	
	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	N	N	G5	SAB,S	G5	S4	
				ZN			
G-Trend	Decreasing						
G-Trend	Wilkins	Wilkins and Otto (2004) show long-term average declines of -48%. North					
Comment	America	American Breeding Bird Survey data also indicate a significant population					
	decrease	decrease of 2.8% survey-wide between 1966 and 2003 (Sauer et al. 2004).					
	Fronczal	Fronczak (2004) gives a North American breeding bird population estimate of					
	2,185,00	2,185,000.					
S-Trend	Decreasi	ng					
S-Trend	Waterfor	wl harvest da	ta show dec	lines in the I	Mississippi Flywa	ay (Fronczak	
Comment	2004).	2004).					
Habitat /	This is a wintering bird that mainly uses shallow water habitat and flooded						
Life History agricultural fields, but will also rest on larger lakes and rivers.							

Key Habitat condition ranges from FAIR (shallow water habitat, flooded agriculturalHabitat fields) to GOOD (larger lakes and rivers).

No key habitat to identify; the species will use appropriate habitat where available statewide.

Guilds Emergent and shrub-dominated wetlands, forested wetland,

grassland/agricultural, running water, standing water.

Statewide NorthernPintail.pdf

Map

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Terrestrial habitat degradation

3H Habitat loss outside of Kentucky

3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Pandion haliaetus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G5	S2B	G5	S2

G-Trend Increasing

G-Trend North American Breeding Bird Survey data show significant increases survey-

Comment wide of 6.5% annually from 1966-2003 (Sauer et al. 2004). Population

increases and range expansions have been documented for many areas in the

U.S. These increases are believed to be due, at least in part, to reduced use of

pesticides that apparently caused population declines in the 1960s and 1970s.

Osprey populations now appear to be reoccupying their historical habitat and,

in some areas, have expanded their range to include habitats around new

reservoirs. Some other areas have experienced local declines where nesting

habitat has been lost or fish populations have declined (Henny and Anthony

1989 in NatureServe 2004). Partners in Flight North American Landbird

Conservation Plan gives Global population estimate of 460,000 (see Rich et al.

2004 for accuracy and precision ratings).

S-Trend Increasing

S-Trend Osprey surveys at Lake Barkley observed increases from 26 nests in 1999 to

Comment 47 nests in 2004 (Ray 2004). Only 6 confirmed breeding pairs are known

outside of Lake Barkley (Palmer-Ball and McNeely 2003).

Habitat / This breeding species is found primarily along rivers, lakes, and reservoirs.

Life History Nests in dead and living trees, on utility poles, platforms on poles, etc., usually near or above water. Nests are often used in successive years (NatureServe 2004). Such habitats in Kentucky are available, as long as existing nesting sites are protected or added, such as replacing the use of navigation lights on Lake Barkley with manmade nesting platforms.

Key Habitat condition is generally GOOD for Kentucky.

Habitat

Key Habitat Locations (all in good condition):

- 1. Lake Barkley (Lyon and Trigg Counties)
- 2. Kentucky Lake (Calloway County)
- 3. riparian corridor along Green River (Muhlenberg and Ohio Counties)

Guilds forested wetland, running water, standing water.

Statewide Osprey.pdf

Osprey Pandion haliaetus

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

Miscellaneous Mortality Factors

- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). Of nest sites
- 6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Flooding at nest platforms

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Peregrine Falcon Falco peregrinus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS:LE	Е	G4	S1B	G4	S 1

G-Trend Increasing

G-Trend This species is widespread, with increasing populations in many areas. Since

Comment

the early 1970s, captive breeding and reintroduction programs have had some success in North America, and reproductive failure due to pesticide contamination has been reduced so that it is no longer a serious threat in most areas. Populations in North America have recovered in some areas and are increasing in most other areas. Populations are increasing in northern Eurasia. Throughout eastern North America, the release of thousands of individuals reared from a variety of captive wild stocks has obscured the former boundaries of the subspecies, F. p. anatum. The subspecies had been extirpated in eastern U.S. and southeastern Canada and greatly reduced in numbers over many other

portions of its range; numbers are currently increasing and recovery objectives

have been met in most areas (NatureServe 2004). Partners in Flight North

American Landbird Conservation Plan gives population estimate of 340,000 in

the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Stable S-Trend Since reintroduction efforts began in 1993 when no peregrines nested in theComment state, the species now nests at 5 locations in the state. Additional territorial birds are also being sighted annually.

Habitat / The historic habitat of this resident bird included cliffs along the Cumberland

Life History Mountains and Cumberland Plateau, bluffs along the Kentucky and Ohio

Rivers, and hollow trees in the cypress swamps of far western Kentucky

(Palmer-Ball, 1996; Mengel 1965). Current nesting habitat includes bridges and smokestacks at powerplants along the Ohio River, although the number of potential powerplant and bridge territories is limited. Nonbreeding birds are also known to utilize buildings in cities and cliffs at the Red River Gorge

(Vorisek and Carter 2004).

Key Habitat condition ranges from FAIR (limited number of bridge and powerplantHabitat sites) to UNKNOWN (clifflines) in Kentucky.

Key Habitat Locations (all in fair condition because juvenile mortality is high):

- 1. Russell/Ironton Bridge (Greenup County)
- 2. Kentucky Utilities Ghent Station (Carroll County)
- 3. Big 4 bridge in Louisville (Jefferson County)

Peregrine Falcon

Falco peregrinus

- 4. Route 421 Bridge in Milton (Trimble County)
- 5. smokestack at Louisville Gas and Electric Station (Trimble County)
- 6. smokestack at Kentucky Utilities Ghent Station (Carroll County).

Additional key habitats include the Cynergy Eastbend Power Plant (Boone County), cliff habitats at the Red River Gorge Geologic Area (Powell and Menifee Counties), and downtown Lexington (Fayette County). Conditions of these sites are unknown since it is unclear to what extent the habitat is being used (Vorisek and Carter 2004; Dzialak et al. 2005).

Guilds caves, rock shelters, and clifflines, urban/suburban.

Statewide PeregrineFalcon.pdf

Map

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species. Great-horned Owls
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Nest sites

Miscellaneous Mortality Factors

- 6A Traffic/road kills
- 6B Man-made structures

- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). At nest sites
- 6E Illegal killing

- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3J Bridge/Highway construction/maintenance
- 3M Timber harvest. At clifflines
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3U Loss, lack and degradation of special and unique microhabitats. Clifflines

Pied-billed	Grebe				Podily	ymbus podiceps	
	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	N	E	G5	S1B,S	G5	S 1	
				4N			
G-Trend	Unknow	n					
G-Trend	Population	on estimate a	nd trends du	e pending V	Version 2 of the V	Vaterbird Plan	
Comment	(Kushlar	(Kushlan et al. 2002).					
S-Trend	Unknow	Unknown					
S-Trend	Atlas fie	Atlas fieldwork yielded one priority block record of the Pied-billed Grebe, and					
Comment	two incid	dental observ	ations were	reported. Co	onfirmed breeding	g was reported	
	from onl	from only one location (Palmer-Ball 1996).					
Habitat /	Resident	bird that use	s shallow w	ater wetland	ls with submerge	d vegetation	
Life Histor	ry (unknow	n), emergent	wetland (po	or), reservo	irs (good), and ep	phemeral ponds	
	(unknow	'n).					
Key	Habitat o	conditions are	POOR (em	ergent wetla	and), GOOD (res	ervoirs), and	
Habitat	unknow	n (shallow wa	ater wetlands	s with submo	erged vegetation)).	
	No key l	nabitat to ider	ntify; the spe	ecies will use	e appropriate hab	oitat where	

Emergent and shrub-dominated wetlands, running water, standing water.

available statewide.

Guilds

Statewide Pied-billedGrebe.pdf

Pied-billed Grebe

Podilymbus podiceps

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Biological/ consumptive uses

5N Hunting. Misidentification for waterfowl

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion to by draining wetlands

- 3F Urban/residential development
- 3G Shoreline development
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Piping Plover	Charadrius melodus
r iping r iover	Charaartas metoaus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
LE,LT	N	G3	SZN	G3	S2

G-Trend Increasing

G-Trend Generally increasing, but trend varies with region. International censuses in

Comment 1991 and 1996 revealed a rangewide increase of 7.7 per cent over that five-year period, from 5488 individuals to 5913 individuals (NatureServe 2004).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands (poor), floodedLife History agricultural fields (fair), and shoreline, mudflat, and sandbar habitat of lakes and rivers (fair).

Key Habitat conditions range from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkley lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the

shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli 2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide <u>PipingPlover.pdf</u>

Piping Plover Charadrius melodus

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle and water management
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development. And erosion
- 3H Habitat loss outside of Kentucky. Loss of wetlands
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Prairie Warbler	Dendroica discolor

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S5B	G5	S 5

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant survey-wide

Comment annual decline of 2.0% from 1966-2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 1,400,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Decreasing

S-Trend North American Breeding Bird Survey data show a significant decline of 2.8%

Comment from 1966-2003 and the average number of individuals recorded per route was 3.93 (Sauer et al. 2004). Partners in Flight estimates a population of 140,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / The Prairie Warbler is a breeding species that inhabits a variety of semi-open,

Life History often successional habitats, including brushy forest edge, but typically avoids

mature forest. Although the species can be found in deciduous vegetation, it

occurs most frequently in mixed community types where pines or red cedars

are present or dominant. Small numbers are sometimes found in natural

situations, such the margins of cedar glades, but these warblers occur primarily

in artificially created habitats, including reverting agricultural fields and pastures, regenerating forest clear-cuts, reclaimed strip mines, and young pine plantations (Palmer-Ball 1996). This species requires an early successional component to all forest habitat types.

Key Habitat condition is generally UNKNOWN for Kentucky, but is likely in FAIR

Habitat condition overall.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds savanna/ shrub-scrub.

Statewide PrairieWarbler.pdf

Prairie Warbler Dendroica discolor

Conservation Issues

D' 1 ' 1/	, •	
B1010g1cal/	consumptive	uses

- 5B Predation from native species
- 5M Brood parasitism (Brown-headed Cowbird)

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation

Prothonotary Warbler Protonotaria citrea						
	Federal	Federal Heritage		SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	N	G5	S5B	G5	S5

G-Trend Stable

G-Trend Large breeding range in much of eastern U.S. and adjacent southern Ontario with

numerous occurrences. Species has fairly stable population but with some indications of a small decline (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 1,800,000 in the U.S. (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Prothonotary Warblers are regularly recorded on only about one-third of

Comment Kentucky's Breeding Bird Survey routes. In part due to small sample sizes,

trend analysis of these data does not reveal statistically significant results

(Palmer-Ball 1996). Partners in Flight estimates a population of 28,800

individuals (see Rosenberg 2004 for assumptions).

Habitat / This breeding species is seldom encountered far from water. Prothonotary
 Life History Warblers frequent a great variety of natural and artificial habitats including riparian corridors along rivers and streams, floodplain sloughs, swamps, and the margins of reservoirs. In addition, the species uses seasonally flooded

bottomland forest that may be dry throughout the summer, as well as residential areas near bodies of water (Palmer-Ball 1996). The species requires cavities for nesting.

Key Habitat condition is generally UNKNOWN for Kentucky, but likely POOR

Habitat overall.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds forested wetland.

Statewide ProthonotaryWarbler.pdf

Prothonotary Warbler

Protonotaria citrea

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration . Potential to impact aquatic insect community

Biological/ consumptive uses

- 5B Predation from native species
- 5D Competition from introduced/invasive or native species. Competition for nest sites
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Nest sites
- 5M Brood parasitism (Brown-headed Cowbird)

Miscellaneous Mortality Factors

6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Flooding

Point and non-point source pollution

4A Acid mine drainage other coal mining impacts. Not investigated, but potential to impact species if aquatic insect community is destroyed

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc).Conversion to by draining of wetlands
- 3F Urban/residential development

- 3G Shoreline development. Associated mostly with bottomland forests or along rivers, streams, and reservoirs
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3N Removal of dead trees. Removal of dead tree component and older trees along streams (both most likely to develop nesting cavities)

Red-breasted Nuthatch

Sitta canadensis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	E	G5	S1B	G5	S 1

G-Trend Increasing

G-Trend North American Breeding Bird Survey data indicate a significant population

Comment increase in North America between 1966 and 2003 of 1.6% annually (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 18,000,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Only one small breeding population has been confirmed in the state (Palmer-Comment Ball 2003).

Habitat / Species is found in coniferous and mixed forest where it nests in cavities. In
 Life History migration and winter, this species is also found in deciduous forest, open woodland, parks, scrub, and riparian woodland (American Ornithologists' Union 1983).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Conifers of Red River Gorge in Wolfe County (unknown).

Guilds upland forest.

Statewide Red-breastedNuthatch.pdf

Map

Conservation Issues

Terrestrial habitat degradation

3M Timber harvest

Unknown factors/variables

7A Unknown threats. Occurrence is infrequent

Red-cockaded Woodpecker

Picoides borealis

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
LE	X	G3	SX	G3	N

G-Trend Unknown

G-Trend Population has declined by about 97% over the past 100 years. However,

Comment recent management innovations have alleviated threats and resulted in population increases in some areas, although rangewide trends are not precisely known at present (NatureServe 2004). Currently, there are an estimated 14,068 red-cockaded woodpeckers living in 5,627 known active clusters across eleven states (U.S. Fish and Wildlife Service 2003).

S-Trend Unknown

S-Trend Currently extirpated from Kentucky. Will examine efficacy of reintroduction ofComment species.

Habitat / This once resident species was endemic to open, mature and old growth pine

Life History ecosystems in the southeastern U.S. (U.S. Fish and Wildlife Service 2003). In

Kentucky, these cavity nesters once utilized shortleaf, pitch, and Virginia pines

usually 80" years old in the Cliff Section of the Cumberland Plateau (Kentucky

Department of Fish and Wildlife Resources 2001). Such mature pine or mixed

pine-hardwood forest habitat is currently in poor condition due to damage by

the southern pine bark beetle in 2000. After the damage, all existing birds at the

time were relocated in 2001 (Palmer-Ball 2003).

Key Habitat condition is generally POOR for Kentucky. No adequate habitat is

Habitat currently present.

Guilds upland forest.

Statewide Red-cockadedWoodpecker.pdf

Red-cockaded Woodpecker

Picoides borealis

Conservation Issues

Biological/ consumptive uses

- 5B Predation from native species
- 5D Competition from introduced/invasive or native species
- 5F Low population densities
- 5H Isolated populations (low gene flow)
- 5K Lack of suitable habitat for spawning, nesting, or breeding

Miscellaneous Mortality Factors

6G Stochastic events (droughts, unusual weather, pine beetle damage, flooding etc.). Southern pine beetle infestation.

- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Lack of stand management.
- 3R Habitat and/or Population Fragmentation. Habitat and population fragmentation.

Red-headed Woodpecker

Melanerpes erythrocephalus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S4B,S	G5	S4
			4N		

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data show significant annual declines in

Comment both the U.S and Canada of 4.4% and 4.8%, respectively (Sauer et al. 2004).

Local declines have also been reported, especially in the southeastern U.S (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 2,500,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Red-headed Woodpeckers are scarce or absent on most Kentucky Breeding BirdComment Survey routes. Although the sample size is small, trend analysis of these data

indicates a nonignificant increase of 1.7% per year for the period 1966-2003 and a nonsignificant decrease of 1.8% per year for the period 1980-2003 (Sauer et

al. 2004). Partners in Flight estimates a population of 50,000 individuals (see

Rosenberg 2004 for assumptions).

Habitat / These resident cavity nesters are found in a great variety of habitats, but theyLife History occur most frequently in semi-open to areas with some large trees. The species

is most conspicuous in western Kentucky, where it inhabits bottomland forests, swamps, and the margins of floodplain sloughs. Elsewhere, this woodpecker most frequently inhabits rural farmland with scattered trees or small woodlots, but it is also regularly found in parkland, riparian corridors, and the margins of reservoirs. The species generally avoids mature, closed-canopy forest during the breeding season, probably because of its active, flycatching habits. The exception to this trend is mature bottomland forest, where the midstory is typically open. In eastern Kentucky, Red-headed Woodpeckers seem to be restricted to altered habitats, including roadway and utility corridors, forest clear-cuts, golf-courses, and the margins of reclaimed strip mines and reservoirs (Palmer-Ball 1996).

Key

Habitat condition is generally FAIR to POOR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds

forested wetland, savanna/ shrub-scrub.

Red-headed Woodpecker

Melanerpes erythrocephalus

Statewide Red-headedWoodpecker.pdf

Map

Conservation Issues

Aquatic habitat degradation

2F Riparian zone removal (Agriculture/development)

Biological/ consumptive uses

- 5D Competition from introduced/invasive or native species. Competition for nest sites (with Starlings)
- 5K Lack of suitable habitat for spawning, nesting, or breeding. Nest sites

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3D Switch to cleaner agricultural practices
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Of bottomlands
- 3N Removal of dead trees
- 3S Fire suppression/fire regime management. Fire suppression

Rose-breasted Grosbeak

Pheucticus ludovicianus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S3S4B	G5	S 3

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a significant population

Comment decline survey-wide of 2.1 % annually from 1980-2003 (Sauer et al. 2004).

Partners in Flight North American Landbird Conservation Plan gives population estimate of 4,600,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend The species is not adequately picked up on Kentucky Breeding Bird Survey

Comment routes and breeding populations are limited to a few locations in the state.

Habitat / This is a breeding species typically found in deciduous forest and forest edge,
 Life History where they forage mostly at upper and midstory levels. At higher elevations of
 Black Mountain, the species is numerous in fairly mature, relatively
 undisturbed forest as well as forest edge and regenerating, younger forest

undisturbed forest as well as forest edge and regenerating, younger forest disturbed by selective logging, resource extraction, or fire. Numbers there probably have fluctuated somewhat, as land use changes have occurred on the mountain. At present, the species is probably about as numerous as ever, given the diversity of forest habitats present near the summit (Palmer-Ball 1996).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

- 1. Deciduous forests above 3,000 feet on Black Mountain (unknown)
- 2. Cumberland Gap National Historic Park (unknown)
- 3. Daniel Boone National Forest in Rowan County (unknown)

Guilds Cumberland highland forest, upland forest.

 ${\bf Statewide} \quad \underline{Rose-breastedGrosbeak.pdf}$

Rose-breasted Grosbeak

Pheucticus ludovicianus

Conservation Issues

Terrestrial habitat degradation

- 3H Habitat loss outside of Kentucky
- 3K Surface mining
- 3M Timber harvest
- 3S Fire suppression/fire regime management

Unknown factors/variables

7A Unknown threats

CLASS Aves

Ruffed Grouse	Bonasa umbellus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S4	G5	S4

G-Trend

Stable

G-Trend

Comment

and southern Canada and the northern United States to the Atlantic Coast, south

"The ruffed grouse is a popular gamebird distributed from Alaska across central

coincides closely with that of aspen, except in the Appalachians. Throughout

into the central Rocky Mountains and Appalachian Mountains. Its distribution

most of the range of the ruffed grouse, aspen is considered a key component of

ruffed grouse diet and cover. Limited research conducted in the Appalachian

region suggested ruffed grouse ecology and thus potential management differ

greatly between the core of the species range (i.e., the Great Lakes and southern

Canada region) and the Appalachian Mountains due at least in part to the

absence

of aspen. Breeding bird survey data from the U.S. Fish and Wildlife Service show a significant decline in ruffed grouse indices over the last 35 years in both the Ridge and Valley and Alleghany Plateau regions of the Appalachians. These declines coincide with those of other early-successional bird species, and may be in part a result of changes in forest age over the last 35 years." Devers et a. 2008

S-Trend

Decreasing

S-Trend

Comment

Grouse populations in the Appalachian region have been declining for several decades. Habitat loss is a major cause in these declines, largely due to limited timber harvests and long timber rotations resulting in vast acreages of mature

timber.

The Appalachian Cooperative Grouse Research Project (ACGRP) was a multistate cooperative effort initiated in 1996 to investigate the apparent decline of ruffed grouse and improve management throughout the central and southern Appalachian region (i.e., parts of Ohio, Pennsylvania, Rhode Island, Kentucky, West Virginia, Virginia, and North Carolina, USA) (Devers et al. 2008).

Habitat /

Grouse populations in the Appalachian region have been declining for several decades. Habitat loss is a major cause in these declines, largely due to limited timber harvests and long timber rotations resulting in vast acreages of mature timber (Whitaker 2003).

History

Life

The Appalachian Cooperative Grouse Research Project (ACGRP) was a multistate cooperative effort initiated in 1996 to investigate the apparent decline of ruffed grouse and improve management throughout the central and southern Appalachian region (i.e., parts of Ohio, Pennsylvania, Rhode Island, Kentucky, West Virginia, Virginia, and North Carolina, USA) (Devers et al. 2007).

Key

Habitat condition is generally POOR for Kentucky.

Habitat

Guilds

Cumberland highland forest, savanna/ shrub-scrub, upland forest.

Statewide Ruffed_Grouse.pdf

Map

Conservation Issues

Biological/ consumptive uses

5B Predation from native species

Terrestrial habitat degradation

- 3C Lack of newly abandoned farmland
- 3M Timber harvest. Lack of timber harvest
- 30 Reforestation. Lack of early-successional forest
- 3R Habitat and/or Population Fragmentation
- 3S Fire suppression/fire regime management. Limited use of controlled burning as a management tool
- 3T Suppression of disturbance regimes. Limited timber harvests = even-aged forests
- 3V Long-term loss of hard mast trees (American Chestnut, poor oak

Rusty Blackbird	Euphagus carolinus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G4	S3S4	G4	S 3
			N		

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data show a statistically significant

Comment survey-wide decline of 8.7% per year from 1980-2003 (Sauer et al. 2004). A

significant, range-wide decline of approximately 90% has occurred over the past

three decades as indicated by data from the Breeding Bird Survey, Christmas

Bird Counts, and Quebec Checklist Program (NatureServe 2004). Partners in

Flight North American Landbird Conservation Plan gives population estimate

of 2,000,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Decreasing

S-Trend Species has somewhat declined over the past 20 years (Palmer-Ball 2003).

Comment

Habitat / This is a winter resident that is usually encountered in swampy woods and wetLife History meadows with pools of standing water, but also occurs along stream and pond

margins, feedlots and in grain stubble fields (Palmer-Ball 2003).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds forested wetland.

Statewide RustyBlackbird.pdf

Rusty Blackbird

Euphagus carolinus

Conservation Issues

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion to by draining of forested wetlands

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest. Of forested wetlands

Unknown factors/variables

7A Unknown threats

Sanderling						Calidris alba		
	Federal	Federal Heritage GRank SRank GRank						
	Status	Status			(Simplified)	(Simplified)		
	N	N	G5	SZN	G5	S 3		
G-Trend	Decreasing							
G-Trend	Species has been documented to be in decline (Brown et al. 2001).							
Comment								
S-Trend	Unknow	n						

Comment

S-Trend

Habitat / Transient bird that uses shallow water wetlands, flooded agricultural fields, andLife History shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide <u>Sanderling.pdf</u>

Sanderling Calidris alba

Conservation Issues

- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky. Loss of wetlands
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

CLASS Aves

Sandhill Cr	ane				G	Grus canadensis			
	Federal	Heritage	GRank	SRank	GRank	SRank			
	Status	Status			(Simplified)	(Simplified)			
	PS	N	G5	SZN	G5	N			
G-Trend	Increasir	ng							
G-Trend	The east	ern populatio	n of sandhil	l cranes, wh	ich migrates thro	ugh and winters			
Comment	in Kentu	icky, has incr	eased signifi	cantly since	USFWS Fall su	rveys began in			
	1979. S	1979. Survey numbers increased from 14,385 in 1979 to 59,876 in 2009							
	(USFWS	(USFWS unpublished data).							
S-Trend	Increasir	Increasing							
S-Trend	Winterin	ng/transient n	umbers are i	ncreasing.	Winter counts rea	ached their highest			
Comment	levels in	Feb 2010 wi	th almost 19	,000 birds ii	n two groups in t	he state (KDFWR			
	unpublis	unpublished data)							
Habitat / night	Wintering/migrating sandhill cranes roost in shallow water (<20cm deep) at								
Life feeding	and feed in waste grain fields during the day. Corn stubble is the preferred								
History	site (Tac	cha et al. 199	4)						
Key	Habitat o	condition thro	oughout Ken	tucky is FA	IR for this specie	es.			
Habitat									
	No key l	nabitat to ider	ntify: the spe	ecies will use	e appropriate hab	itat in the central			
	portion o	of the state							

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural.

Statewide SandhillCrane.pdf

Map

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

Miscellaneous Mortality Factors

- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Siltation and increased turbidity

1B Agriculture. impacts on shallow roost ponds

Terrestrial habitat degradation

3D Switch to cleaner agricultural practices

CLASS AVES

Savannah	Sparrow	Passerculus	sandwichensis			
	Federal	Heritage	GRank	SRank		
	Status	Status	(Simplified)	(Simplified)		
	N	S	G5	S2S3B	G5	S2
				.S2S3		

G-Trend Unknown

G-Trend North American Breeding Bird Survey data analysis shows a significant

Comment decrease in the eastern and western portions but an increase in the central

portion. Survey-wide analysis gives an annual decrease of 0.8% from 1980-

2003 (Sauer et al. 2004). Partners in Flight North American Landbird

Conservation Plan gives Global population estimate of 82,000,000 (see Rich et

al. 2004 for accuracy and precision ratings).

S-Trend Increasing

S-Trend Atlas work resulted in records in only 10 priority blocks. Results suggest a

Comment regularly occurring, and probably increasing, nesting population in the northern

Blue Grass (Palmer-Ball 1996).

Habitat / This species is found most frequently during the breeding season in hayfields,

Life History pastures, and other grassy habitats where the vegetation is not especially tall or

thick (Palmer-Ball 1996). In winter, the species is found in extensive weedy

and grain stubble fields with some dense ground cover (Palmer-Ball 2003).

Key Habitat condition is generally FAIR for Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. During breeding: grasslands in the northeastern and north-central counties

including Bourbon, Fayette, Lewis, Boyle, Bourbon, Boone, Jefferson, Oldham,

and Woodford (fair condition)

No key habitat to identify during the winter since bird will use appropriate

habitat state-wide.

Guilds grassland/agricultural.

Statewide SavannahSparrow.pdf

Savannah Sparrow

Passerculus sandwichensis

Conservation Issues

Biological/ consumptive uses

5M Brood parasitism (Brown-headed Cowbird)

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 30 Reforestation
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes

Sedge Wren	Cistothorus platensis
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	S	G5	S3B	G5	S 3

G-Trend Increasing

G-Trend North American Breeding Bird Survey data analysis gives a significant survey-

Comment wide annual increase of 2.1% for 1966-2003 and a nonsignificant increase of 1.2% for 1980-2003 (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 6,500,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend The species does not show up adequately on Kentucky Breeding Bird Survey routes. The atlas survey yielded only four reports of Sedge Wrens in priority blocks, although six incidental observations were reported (Palmer-Ball 1996).

Partners in Flight estimates a population of 850 individuals (see Rosenberg 2004 for assumptions).

Habitat / This is a breeding species found in wet or boggy grasslands and savannas, sedge

Life History marshes, moist meadows with scattered low bushes, upland margins of ponds
and marshes, and locally in dry cultivated grainfields (American Ornithologists'

Union 1983). In Kentucky, where such habitats are virtually absent, the
species inhabits hayfields, overgrown pastures, and fallow fields. Sedge Wrens

seem to prefer moist situations, but they typically avoid marshes. Wherever these wrens occur, they choose only areas with an abundance of thick, herbaceous cover (Palmer-Ball 1996).

Key Habitat condition is generally FAIR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds grassland/agricultural.

Statewide <u>SedgeWren.pdf</u>

Sedge Wren

Cistothorus platensis

Conservation Issues

Miscellaneous Mortality Factors

6B Man-made structures. Communication towers

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion of wet meadows and herbaceous wetlands

- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3T Suppression of disturbance regimes. To woody cover

Semipalmated Sandpiper

Calidris pusilla

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S4

G-Trend Decreasing

G-Trend Species has been documented to be in decline (Brown et al. 2001).

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide SemipalmatedSandpiper.pdf

Semipalmated Sandpiper

Calidris pusilla

Conservation Issues

Aquatic h	abitat d	degradation	ı
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion of wetlands

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes. Of wetlands

Sharp-shinned Hawk	Accipiter striatus
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
PS	S	G5	S3B,S	G5	S 3
			4N		

G-Trend Unknown

G-Trend Current trends are difficult to discern from migration data and no consistent

Comment trends are known. North American Breeding Bird Survey data are also of limited use because this species is only rarely detected (NatureServe 2004).

Partners in Flight North American Landbird Conservation Plan gives Global

population estimate of 1,100,000 (see Rich et al. 2004 for accuracy and

precision ratings).

S-Trend Unknown

S-Trend The atlas survey yielded 39 records of Sharp-shinned Hawks in priority blocks,

Comment and eight incidental observations were reported (Palmer-Ball 1996).

Habitat / This is a resident bird encountered in a variety of semi-open and forested

Life History habitats. They are most frequently found in heavily forested areas, but small

numbers also occur in semi-open conditions where forest has been fragmented

(Palmer-Ball 1996).

Key Habitat condition is generally FAIR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds upland forest.

Statewide Sharp-shinnedHawk.pdf

Map

Conservation Issues

Terrestrial habitat degradation

3F Urban/residential development

3M Timber harvest

3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Short-billed Dowitcher

Limnodromus griseus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

G-Trend Decreasing

G-Trend Species has been documented to be in decline (Brown et al. 2001).

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide Short-billedDowitcher.pdf

Short-billed Dowitcher

Limnodromus griseus

Conservation Issues

Aquatic h	abitat d	degradation	ı
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Short-eared	d Owl					Asio flammeus
	Federal	Heritage	GRank	SRank	GRank	SRank
	Status	Status			(Simplified)	(Simplified)
	N	E	G5	S1B,S	G5	S 1
				2N		
G-Trend	Unknow	n				

G-Trend North American Breeding Bird Survey data indicate a significant survey-wide decline between 1966 and 2003 of 4.9%, although erratic population fluctuations make trend detection difficult (Sauer et al. 2004; NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 710,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Extent to which the species nests in Kentucky is unclear and annual numbers

Comment most likely fluctuates in response to prey abundance (Palmer-Ball 1996).

Habitat / This species occurs year-round and is found most often in open farmland andLife History reclaimed surface mines (Palmer-Ball 2003). Broad expanses of open land with low vegetation for nesting and foraging are required (NatureServe 2004).

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Reclaimed mine lands on Peabody Wildlife Management Area in Ohio and

Muhlenburg Counties (fair)

Guilds grassland/agricultural.

Statewide Short-earedOwl.pdf

Short-eared Owl Asio flammeus

Conservation Issues

Biological/ consumptive use	Biologic	al/ cons	umptiv	e use
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5B Predation from native species

Miscellaneous Mortality Factors

- 6B Man-made structures. Communication towers
- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). At roost and nest sites
- 6E Illegal killing

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation
- 3T Suppression of disturbance regimes

Solitary Sandpiper	Tringa solitaria
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S4

G-Trend Unknown

G-Trend Insufficient information exists to assess population trends (Brown et al. 2001).

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands (poor), flooded

Life History agricultural fields, and shoreline, mudflat, and sandbar habitat of lakes and

rivers, but will also use streams, creeks, and the edges of larger bodies of water.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIR

Habitat (flooded agricultural fields, shoreline habitats); condition of stream and creek

edges is UNKNOWN.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds grassland/agricultural, running water, standing water.

Statewide <u>SolitarySandpiper.pdf</u>

Solitary Sandpiper

Tringa solitaria

Conservation Issues

Aquatic	habitat	degrad	lation
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

CLASS Aves

Sora	Porzana carolina

	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	N	N	G5	SZN	G5	N	
G-Trend	Stable						
G-Trend	Breeding	g Bird Survey	s show a no	nsignificant	increase of 0.9%	survey-wide for	
Comment	the perio	d 1966-2007	with a relati	ive abundan	ce of 1.04 individ	duals per route	
	(Sauer et	al. 2008).					
S-Trend	Unknow	n					
S-Trend	No data	No data exists for migrating Sora Rails.					
Comment							
Habitat /	Sora rail	s inhabit stan	ds of emerg	ent vegetation	on within freshwa	ater wetlands.	
Life	Shallow	water, emerg	gent cover, a	nd substrate	with high inverte	ebrate abundance	
History High	are the m	nost importar	nt componen	ts of rail hab	oitat (Melvin and	Gibbs 1994).	
	intersper	rsion of water	to and emer	rgent vegeta	tion are importan	t. Sora rails avoid	
	emergen	t stands with	high stem de	ensities and	seem to select la	rger size wetlands	
	(Melvin	and Gibbs 19	994).				
Key	Habitat c	condition thro	oughout Ken	tucky is FA	IR for this specie	s.	
Habitat							

No key habitat to identify: the species will use appropriate habitat statewide.

Emergent and shrub-dominated wetlands.

Guilds

Statewide Sora.pdf

Map

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Terrestrial habitat degradation

3Q Invasive/exotic plants (including fescue). Phragmities invasion

CLASS Aves

Key

Habitat

Spotted San	ıdpiper				Ac	titis macularius	
	Federal	Heritage	GRank	SRank	GRank	SRank	
	Status	Status			(Simplified)	(Simplified)	
	N	E	G5	S1B	G5	S1	
G-Trend	Decreasi	ng					
G-Trend	Breeding	Breeding Bird Surveys show a significant decrease of 0.81% survey-wide for the					
Comment	period 19	period 1966-2007 with a relative abundance of 0.48 individuals per route (Sauer					
	et al. 200	et al. 2008).					
S-Trend	Unknow	Unknown					
S-Trend	The spot	ted sandpiper	r is a rare an	d sporadic b	oreeding bird in k	Kentucky (Palmer-	
Comment	Ball 199	6) but no sur	vey data exis	sts for the sp	pecies in the state	2.	
Habitat /	Spotted s	sandpipers ut	ilize a wide	variety of w	etland habitats s	tatewide from	
Life	stream a	nd river shore	elines, to sho	ores of pond	s and large reserv	voirs, to managed	
History	shallow	water impour	ndments (Pa	lmer-Ball 19	996). For nesting	g, spotted	
	sandpipe	ers generally i	nest in distu	rbance free a	areas of thick veg	getation close to	
	exposed	shorelines, b	ut may nest	some distan	ce from water in	pastures (Palmer-	
	Ball 199	6).					

No key habitat to identify: the species will use appropriate habitat statewide.

Habitat condition throughout Kentucky is FAIR for this species.

Guilds Emergent and shrub-dominated wetlands, Lowland Streams in slackwater.

Statewide SpottedSandpiper.pdf

Map

Conservation Issues

Aquatic habitat degradation

2E Stream channelization/ditching

Biological/ consumptive uses

5F Low population densities

Siltation and increased turbidity

1B Agriculture

Stilt Sandpiper	Calidris himantopus
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

G-Trend Unknown

G-Trend Insufficient information exists to assess population trends (Brown et al. 2001).

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli

2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and

Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide StiltSandpiper.pdf

Stilt Sandpiper

Calidris himantopus

Conservation Issues

Aquatic h	abitat d	degradation	ı
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

- 6D Human disturbance (spelunking, destruction/disturbance of nest sites)
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites). at feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Swainson's Warbler

Limnothlypis swainsonii

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G4	S3S4B	G4	S 3

G-Trend Increasing

G-Trend North American Breeding Bird Survey trend analysis indicate increases across

Comment most of its range. However, is likely the species is under-sampled because of difficulty in surveying in its dense thicket habitat (NatureServe 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 84,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Few Breeding Bird Survey routes pick up the species in Kentucky (Sauer et al.

Comment 2004). Atlas survey yielded only 10 records in priority blocks (Palmer-Ball 1996). Partners in Flight estimates a population of 3,800 individuals (see Rosenberg 2004 for assumptions).

Habitat / The Swainson's Warbler is a breeding bird of mesic forests with a dense
Life History understory. In western and south-central Kentucky, the species is typically found in lowland situations, especially floodplain forests with an abundance of giant cane (Palmer-Ball 1996). Such habitat has greatly declined and is in poor condition. The species is also found in thickets of young trees in wet

bottomlands, regenerating after logging or agricultural use. In southeastern Kentucky, the species frequents forested ravines and lower slopes, and it is most often encountered where a dense understory of rhododendron is present. As in southwestern Kentucky, however, Swainson's Warblers are also found in regenerating forest where the understory is thick and dense (Palmer-Ball 1996). Such habitats are subject to succession.

Key Habitat condition is generally POOR to FAIR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds forested wetland, upland forest.

Statewide Swainson's Warbler.pdf

Swainson's Warbler

Limnothlypis swainsonii

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2M Valley fills

Biological/ consumptive uses

- 5K Lack of suitable habitat for spawning, nesting, or breeding. Lack of breeding habitat
- 5M Brood parasitism (Brown-headed Cowbird)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites).

Recreation, audio lures to make birds visible

- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3I Conversion of native forest to short-rotation crop trees (pine, sycamore, cottonwood, etc.). Conversion to short-rotation pine plantations
- 3K Surface mining. Valley fills, logging
- 3M Timber harvest

Swallow-tailed Kite

Elanoides forficatus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	X	G5	SXB,S	G5	N
			AN		

G-Trend Unknown

G-Trend Large range makes this species apparently secure on a global basis, but range

Comment and abundance have declined in the north and regional trends elsewhere are

poorly known (NatureServe 2004). Partners in Flight North American

Landbird Conservation Plan gives population estimate of 3,700 in the U.S. and

Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Unknown

S-Trend Currently extirpated from Kentucky. Plans to examine efficacy of

Comment reintroduction of species underway.

Habitat / Similar habitat requirements as Mississippi Kite (Ictinia mississippiensis).

Life History

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Guilds forested wetland.

Statewide Swallow-tailedKite.pdf

Map

Conservation Issues

Terrestrial habitat degradation

3H Habitat loss outside of Kentucky

Unknown factors/variables

7A Unknown threats

Trumpeter Swan	Cygnus buccinator
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	X	G4	SXN	G4	S4

G-Trend Increasing

G-Trend NatureServe (2004) lists the North American population as increasing with an

Comment estimate of 24,000 individuals.

S-Trend Unknown

S-Trend Restoration project north of Kentucky; potential to get transient and/or

Comment wintering birds.

Habitat / This is a wintering bird that uses shallow water wetlands with submergedLife History vegetation (poor) as well as larger lakes, rivers, and ponds (good).

Key Habitat condition ranges from POOR (shallow water wetlands) to GOOD (large

Habitat lakes, rivers, and ponds).

No key habitat to identify; the species will use appropriate habitat where available statewide.

Guilds Emergent and shrub-dominated wetlands, running water, standing water.

Statewide <u>TrumpeterSwan.pdf</u>

Trumpeter Swan

Cygnus buccinator

Conservation Issues

Aquatic habitat degradation

- $\label{loss} 2H Wetland\ loss/drainage/alteration\ .\ Draining\ of\ shallow-water\ wetlands$ $Biological/\ consumptive\ uses$
 - 5D Competition from introduced/invasive or native species. Competition for foraging/loafing areas (overcrowding)
 - 5F Low population densities
 - 5L Parasitism and disease. Disease (could cause catastrophic loss given low population size)

Miscellaneous Mortality Factors

- 6D Human disturbance (spelunking, destruction/disturbance of nest sites)
- 6E Illegal killing. Poaching may be a threat, but no evidence

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc). Of shallow-water wetlands
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

Upland Sandpiper

Bartramia longicauda

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Н	G5	SHB	G5	S 3

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data indicate a 20 per cent decline from

Comment 1980-2000 across all regions (NatureServe 2004).

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses short grasslands (poor) and wet prairies (poor).

Life History

Key Habitat conditions are generally POOR (short grasslands and wet prairies).

Habitat

No key habitat to identify; the species will use appropriate habitat where

available statewide.

Guilds grassland/agricultural.

Statewide <u>UplandSandpiper.pdf</u>

Upland Sandpiper

Bartramia longicauda

Conservation Issues

Terrestrial habitat degradation

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3C Lack of newly abandoned farmland
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3R Habitat and/or Population Fragmentation
- 3T Suppression of disturbance regimes

CLASS Aves

Tundra Swan Cygnus columbianus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	N

G-Trend Increasing

G-Trend Breeding populations have increased during the period 1980 -2009. Populatins

Comment have increased 25% from 164,500 in 1980 to 205,400 in 2009 (U.S, Fish and

Wildlife Service 2009).

S-Trend Stable

S-Trend Little evidence exists for abundance of wintering populations in Kentucky.

Comment Christmas Bird Count data has recorded Tundra Swans in 5 years since 1980.

Habitat / This is a wintering bird that uses shallow water wetlands with submerged

Life vegetation (poor) as well as larger lakes, rivers, and ponds (good).

History

Key Habitat condition ranges from POOR (shallow water wetlands) to GOOD (large

Habitat lakes, rivers, and ponds).

No key habitat to identify; the species will use appropriate habitat where

available

statewide.

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

Statewide TundraSwan.pdf

Map

Conservation Issues

Aquatic habitat degradation

2E Stream channelization/ditching

2H Wetland loss/drainage/alteration . Draining of shallow water wetlands

Biological/ consumptive uses

5D Competition from introduced/invasive or native species. introduced mute swans and resident Canada geese

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc). of shallow water wetlands
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky

Vesper Sparrow

Pooecetes gramineus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	Е	G5	S1B	G5	S 1

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data analysis show annual survey-wide

Comment declines of 1.1% (Sauer et al. 2004). Partners in Flight North American

Landbird Conservation Plan gives population estimate of 30,000,000 in the U.S.

and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend Decreasing

S-Trend Once considered to be locally fairly common in the 1950's, the species now appears to have virtually disappeared as a breeding bird (Palmer-Ball 1996).

Habitat / Vesper Sparrows can be found year round. The species historically occupied

Life History well-grazed pastures on moderate to steep slopes with scattered rock outcrops
and patches of bare ground, a few scattered trees, and usually a nearby pond
(Palmer-Ball 1996). They are now found in a variety of open to semi-open
habitats including grain stubble fields, pastures, and open roadsides (Palmer-Ball 2003). Although such habitat appears common in Kentucky, only 2 recent
records during the breeding season exist.

Key Habitat condition is generally UNKNOWN for Kentucky.

Habitat

Key Habitat Locations (and their condition):

1. Farmland of Nicholas and Bourbon counties (unknown).

No key habitat to identify during the winter since bird will use appropriate

habitat state-wide.

Guilds grassland/agricultural.

Statewide <u>VesperSparrow.pdf</u>

Vesper Sparrow

Pooecetes gramineus

Conservation Issues

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3D Switch to cleaner agricultural practices
- 3E Livestock grazing
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 30 Reforestation
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3S Fire suppression/fire regime management
- 3T Suppression of disturbance regimes. To woody cover

CLASS Aves

Virginia Ra	il					Rallus limicola			
	Federal	Heritage	GRank	SRank	GRank	SRank			
	Status	Status			(Simplified)	(Simplified)			
	N	N	G5	S1B?,	G5	S 1			
				SZN					
G-Trend	Stable								
G-Trend	Little da	ta exists for p	opulation tr	ends in the s	secretive marsh b	pirds. The best			
Comment Bird	piece of	piece of information for Virginia rails is the Breeding Bird Survey . Breeding							
	Surveys show an increase of 2.16% survey-wide for the period 1967-2007 with								
	a relative	a relative abundance of 0.04 individuals per route (Sauer et al. 2008).							
	Unfortur	nately, the BI	BS is not des	igned to det	ect marsh birds s	so data is lacking.			
S-Trend	Unknow	n							
S-Trend	No data	exists.							
Comment									
Habitat /	Virginia	rails inhabit	stands of em	nergent vege	etation within fres	shwater wetlands.			
Life	Shallow	water, emerg	gent cover, a	nd substrate	with high invert	ebrate abundance			
History	are the n	nost importar	nt componen	ts of Virgini	ia rail habitat (Co	onway and			
	Eddlema	ın 1994). Mo	oderate water	r to cover ra	tios are importan	nt. Virginia rails			

avoid emergent stands with high stem densities and seem to select larger size

wetlands (Conway and Eddleman 1994).

Key Habitat conditions in Kentucky are likely FAIR.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds Emergent and shrub-dominated wetlands.

Statewide <u>VirginiaRail.pdf</u>

Map

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration . Wetland Losses

Terrestrial habitat degradation

3Q Invasive/exotic plants (including fescue). Phragmities monocultures in wetlands

Western Sandpiper

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

Calidris mauri

G-Trend Decreasing

G-Trend Brown et al. (2001) lists the species as being in decline with a population

Comment estimate of 3,500,000.

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to

Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli 2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and Cumberland Rivers.

Guilds grassland/agricultural, running water, standing water.

Statewide WesternSandpiper.pdf

Western Sandpiper

Calidris mauri

Conservation Issues

Aquatic	habitat	degrad	ation
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At feeding sites

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Whooping Crane	Grus americana

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
LE,XN	X	G 1	SXN	G 1	S4

G-Trend Increasing

G-Trend Whooping crane numbers at the end of September, 2004, both captive and wild,

Comment totaled a record 452 (Stehn 2004).

S-Trend Increasing

S-Trend Observations in the state have been increasing due to the restoration project.

Comment

Habitat / This is a transient bird that primarily uses agricultural fields as stop over

Life History habitat, but will also use shallow wetlands (poor) and river bottoms (poor).

Key Habitat condition ranges from POOR (shallow water wetlands, river bottoms)

Habitat to GOOD (agricultural fields).

Key Habitat Locations:

1. Cranes have been observed in several counties--Hardin, Monroe, Larue,

Nelson

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural.

Statewide WhoopingCrane.pdf

Whooping Crane Grus americana

Conservation Issues

Aquatic habitat degradation

2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5F Low population densities

Miscellaneous Mortality Factors

- 6C Powerlines
- 6D Human disturbance (spelunking, destruction/disturbance of nest sites)
- 6E Illegal killing

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

CLASS Aves

Key

Habitat

Whip-poor-will Caprimulgus vociferus								
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	N	N	G5	S5B	G5	S5		
G-Trend	Unknow	n						
G-Trend	Breeding	g Bird Survey	s show a sig	gnificant dec	crease of 2.1% su	rvey-wide for the		
Comment	period 19	966-2007 wit	h a relative	abundance o	of 0.25 individual	s per route (Sauer		
	et al. 200	et al. 2008). Partners in Flight estimates a population of 2,100,000 individuals						
	(see Rose	(see Rosenberg 2004 for assumptions).						
S-Trend	Unknow	Unknown						
S-Trend	Breeding	Breeding Bird Surveys in Kentucky show a nonsignificant decrease of 2.3% for						
Comment	the perio	the period 1980-2007 (Sauer et al. 2008). Breeding Bird Surveys in Kentucky						
	Partners	Partners in Flight estimates a population of 86,200 individuals (see Rosenberg						
	2004 for	assumptions).					
Habitat /	Whip-po	or-wills are f	ound in area	as with great	ter forest cover th	an Chuck-will's-		
Life	widows a	and in a great	er range of l	habitats, fro	m mesic slopes to	subxeric, upland		
History	forests.	They are four	nd more con	nmonly in d	isturbed forests a	nd forest edges		
	where the	ey can forage	e in openings	s for insect p	orey (Palmer-ball	1996).		

Habitat conditions in Kentucky are likely FAIR.

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds grassland/agricultural, savanna/ shrub-scrub, upland forest.

Statewide Whip_poor_will.pdf

Conservation Issues

Biological/ consumptive uses

Declining prey base. Pesticide Use 5Q

Miscellaneous Mortality Factors

6A Traffic/road kills

Terrestrial habitat degradation

3A Row-crop agriculture (conversion to, annual reuse of fields, etc).

Conversion of forests to agriculture

- 3F Urban/residential development
- 3M Timber harvest
- Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain). 3P Pesticides
- 3R Habitat and/or Population Fragmentation

CLASS AVES

Willow Flycatcher Empidonax traillii								
	Federal	Heritage	GRank	SRank	GRank	SRank		
	Status	Status			(Simplified)	(Simplified)		
	PS	N	G5	S3S4B	G5	S 3		
G-Trend	Unknow	Unknown						
G-Trend	North A	North American Breeding Bird Survey data analysis show nonsignificant						

Comment

declines of 0.1% (Sauer et al. 2004). NatureServe (2004) lists the species as being stable or increasing over most of its range but with declined in the Southwest subspecies. Partners in Flight North American Landbird Conservation Plan gives population estimate of 3,300,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend

Increasing

S-Trend

Comment

Once listed as only a single migrant, the species has increased dramatically as a summer resident and is now recorded in scattered localities throughout the state (Palmer-Ball 2003). Partners in Flight estimates a population of 3,100

This breeding species occurs in a variety of early successional habitats. The

individuals (see Rosenberg 2004 for assumptions).

Habitat /

Life History Willow Flycatcher is encountered most often in patches of young trees along open stream corridors or in marshy areas, but it is also found occasionally in drier areas, especially in old fields and pastures regenerating from past agricultural use. As its name implies, this small flycatcher is often found in willows, but it also can be seen in thickets of other species, including alder, mulberry, black locust, indigo bush, and maple. In general, Willow Flycatchers are found much more frequently in patches of young trees situated in fairly open areas than in those surrounded predominantly by forest (Palmer-Ball 1996).

Key

Habitat condition is generally FAIR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds Emergent and shrub-dominated wetlands, savanna/ shrub-scrub.

Statewide <u>WillowFlycatcher.pdf</u>

Willow Flycatcher

Empidonax traillii

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development). Water developments and poor water management either destroy riparian habitat or prevent it from establishing
- 2G Water level fluctuations

Biological/ consumptive uses

5M Brood parasitism (Brown-headed Cowbird)

- 3C Lack of newly abandoned farmland
- 3E Livestock grazing
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3T Suppression of disturbance regimes

Wilson's Phalarope

Phalaropus tricolor

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	SZN	G5	S 3

G-Trend Decreasing

G-Trend Breeding Bird Survey data indicate a significant population decline (41%)

Comment between 1984 and 1993, though the Breeding Bird Survey may not be a good technique for determining the status of this species (NatureServe 2004).

Additionally, Brown et al. (2001) lists the species as having been documented to be in decline.

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline, mudflat, and sandbar habitat of lakes and rivers.

Key Habitat condition ranges from POOR (shallow water wetlands) to FAIRHabitat (flooded agricultural fields, shoreline habitats).

Key Habitat Locations (and their conditions):

- 1. Transient lakes in Warren (good) and Christian (unknown) counties.
- 2. Shoreline of Kentucky and Barkely lakes (good). Extending summer pool to

Labor Day (proposed by Tennessee Valley Authority) would leave the shoreline unexposed until after peak shorebird migration (Ritchison and Ranalli 2004).

3. Mudflat and sandbar habitat on the Tennessee, Ohio, Mississippi, and Cumberland Rivers.

Guilds running water, standing water.

Statewide <u>Wilson'sPhalarope.pdf</u>

Wilson's Phalarope

Phalaropus tricolor

Conservation Issues

Aquatic	habitat	degrad	ation
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations. Alteration of natural drawdown cycle
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Wilson's Snipe	Gallinago delicata
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S3S4	G5	S 3
			N		

G-Trend Decreasing

G-Trend Species has been documented to be in decline (Brown et al. 2001).

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a wintering bird that uses shallow water wetlands, flooded agriculturalLife History fields, and shoreline habitat, but will also use short grasslands and wet prairies.

Key Habitat condition ranges from POOR (shallow water wetlands, short

Habitat grasslands, wet prairies) to FAIR (flooded agricultural fields, shoreline habitats).

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds Emergent and shrub-dominated wetlands, grassland/agricultural, standing water.

Statewide Wilson's Snipe.pdf

Wilson's Snipe

Gallinago delicata

Conservation Issues

Aquatic h	abitat	degrada	ition
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- 2F Riparian zone removal (Agriculture/development)
- 2G Water level fluctuations
- 2H Wetland loss/drainage/alteration
- 2N Eutrophication (eg. of wetlands)

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites)

Point and non-point source pollution

4E Agricultural runoff – including fertilizers/animal waste, herbicides,

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3B Mowing regimes
- 3E Livestock grazing
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3T Suppression of disturbance regimes

Wood Thrush	Hylocichla mustelina
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Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S5B	G5	S 5

G-Trend Decreasing

G-Trend North American Breeding Bird Survey data analysis shows a significant

Comment annually decline survey-wide of 1.8% for the period 1966-2003. NatureServe

(2004) lists the species as having a large range in eastern North America with

many occurrences and a decreasing population trend but still common in many

areas. Partners in Flight North American Landbird Conservation Plan gives

population estimate of 14,000,000 in the U.S. and Canada (see Rich et al. 2004

for accuracy and precision ratings).

S-Trend Unknown

S-Trend Wood Thrushes are reported in small to moderate numbers on most Kentucky

Comment Breeding Bird Survey routes. Trend analysis of these data yields a

nonsignificant decrease of 0.3% per year for the period 1966-2003. The average

number of individuals per Breeding Bird Survey route for the period 1966-2004

was 11.45. (Sauer et al. 2004). Partners in Flight estimates a population of

86,000 individuals (see Rosenberg 2004 for assumptions).

Habitat / This is a breeding bird common in most mesic and subxeric forest types with a

Life History well-developed shrub and midstory layer. Substantial numbers also occur in

drier deciduous and mixed forests of ridges and slopes, as long as the understory

is not too open. Occurrence is greatly reduced in very young forest as well as

disturbed forest lacking understory cover. Although Wood Thrushes are most

common in areas of extensive forest, they tolerate moderate disturbance and

fragmentation. Owing to this adaptability, the species is often found in semi-

open habitats, as long as forested tracts are not reduced to narrow strips or

small, isolated woodlots (Palmer-Ball 1996).

Key

Habitat condition is generally FAIR for Kentucky.

Habitat

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds

upland forest.

Statewide

WoodThrush.pdf

Map

Wood Thrush

Hylocichla mustelina

Conservation Issues

Biological/ consumptive uses

5M Brood parasitism (Brown-headed Cowbird)

- 3E Livestock grazing. Grazing (by cattle and deer in forests because it removes shrubby understory)
- 3F Urban/residential development
- 3H Habitat loss outside of Kentucky
- 3I Conversion of native forest to short-rotation crop trees (pine, sycamore, cottonwood, etc.)
- 3K Surface mining. Valley fills
- 3M Timber harvest. Logging for mining/timber harvest
- 3W Cervid over-abundance. Removes shrubby understory

Worm-eating Warbler

Helmitheros vermivorus

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	N	G5	S4S5B	G5	S 4

G-Trend

Stable

G-Trend

NatureServe (2004) lists this species as having a large breeding range in the

Comment

eastern U.S. with a relatively stable population in recent decades. North American Breeding Bird Survey data give nonsignificant annual increases of 0.5% survey-wide for the period 1966-2003. Due to the small sample size in most areas, Breeding Bird Survey may not give reliable trends for this species (Sauer et al. 2004). Partners in Flight North American Landbird Conservation Plan gives population estimate of 750,000 in the U.S. and Canada (see Rich et al. 2004 for accuracy and precision ratings).

S-Trend

Stable

S-Trend

Comment

Worm-eating Warblers are reported in small numbers on most Kentucky Breeding Bird Survey routes. Trend analysis of these data reveals that the population was relatively stable for the period 1966-2003 and a nonsignificant increase of 1.9% per year for the period 1980-2003. The average number of individuals per Breeding Bird Survey route for the period 1966-2003 was 0.75 (Sauer et al. 2004). Partners in Flight estimates a population of 76,800 individuals (see Rosenberg 2004 for assumptions).

Life History The species uses a wide variety of forest types, including subxeric oak-hickory and mixed pine-hardwood communities, but it is most common in more mesic deciduous and mixed types of lower slopes and ravines. Like many other ground nesters, this warbler typically avoids floodplain forests. While the Worm-eating Warbler usually inhabits mature or fairly mature forest, it also

uses younger forest and forest edge created by natural or artificial disturbance.

The species is regularly encountered in areas of dissected woodland, but it

This is a breeding bird of forests, especially favoring moderate to steep slopes.

generally avoids small, isolated tracts (Palmer-Ball 1996).

Key Habitat condition is generally FAIR for Kentucky.

Habitat

Habitat /

No key habitat to identify; the species will use appropriate habitat range wide.

Guilds upland forest.

Worm-eating Warbler

Helmitheros vermivorus

Statewide Worm-eatingWarbler.pdf

Map

Conservation Issues

- 3F Urban/residential development. Causes habitat fragmentation
- 3H Habitat loss outside of Kentucky. Habitat is highly susceptible to loss on wintering grounds
- 3K Surface mining. Valley fills and logging for mining
- 3M Timber harvest
- 3R Habitat and/or Population Fragmentation. Caused by urban/residential development

Federal

Statue

Heritage

Statue

Yellow Rail

Coturnicops noveboracensis

SRank

(Simplified)

	Status	Status			(Simpimeu)	(Simpinieu)	
	N	N	G4	SZN	G4	S 3	
G-Trend	Unknow	n					
G-Trend	Informat	ion on popula	ation trends	and historic	data is scant due	to difficulty of	
Comment	detecting	detecting birds. Becoming rare in some parts of its range, but is still common in					
	others (N	VatureServe 2	004). Popu	lation estima	te due pending V	Version 2 of the	
	Waterbir	d Plan (Kush	lan et al. 20	02).			

SRank

GRank

(Simplified)

GRank

S-Trend Unknown

S-Trend

Comment

Habitat / This is a transient bird that uses dense, emergent wetlands, and marshy edges ofLife History lakes and ponds dominated by cattails and sedges.

Key Habitat conditions are POOR (emergent wetlands) or UNKNOWN (marshyHabitat edges of lakes and ponds).

No key habitat to identify; the species will use appropriate habitat where available statewide, however western counties can be considered higher priority.

Guilds Emergent and shrub-dominated wetlands.

Statewide YellowRail.pdf

Map

Yellow Rail

Coturnicops noveboracensis

Conservation Issues

Aquatic habitat degradation

- 2H Wetland loss/drainage/alteration. Loss of emergent wetlands
- 2N Eutrophication (eg. of wetlands)

Point and non-point source pollution

- 4A Acid mine drainage other coal mining impacts
- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

Siltation and increased turbidity

- 1B Agriculture
- 1D Urbanization/Development General Construction

- 3A Row-crop agriculture (conversion to, annual reuse of fields, etc)
- 3E Livestock grazing. Around and in wetlands
- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)
- 3Q Invasive/exotic plants (including fescue). Potentially by phragmites
- 3T Suppression of disturbance regimes. Of wetlands

Yellow-crowned Night-heron

Nyctanassa violacea

Federal	Heritage	GRank	SRank	GRank	SRank
Status	Status			(Simplified)	(Simplified)
N	T	G5	S2B	G5	S2

G-Trend Stable

G-Trend Kushlan et al. (2002) lists the species as having an apparently stable population.

Comment

S-Trend Unknown

S-Trend

Comment

Habitat / This is a breeding bird that uses bottomland and river floodplain forests (poor),

Life History bald cypress swamps (fair), and marshy areas (poor).

Key Habitat condition ranges from POOR (forested wetlands, marshy areas) to

Habitat FAIR (bald cypress swamps).

No key habitat to identify; the species will use appropriate habitat where

available statewide.

Guilds forested wetland, running water.

Statewide Yellow-crownedNight-heron.pdf

Map

Yellow-crowned Night-heron

Nyctanassa violacea

Conservation Issues

Aquatic habitat degradation

- 2F Riparian zone removal (Agriculture/development)
- 2H Wetland loss/drainage/alteration

Biological/ consumptive uses

5K Lack of suitable habitat for spawning, nesting, or breeding

Miscellaneous Mortality Factors

6D Human disturbance (spelunking, destruction/disturbance of nest sites). At rookeries

Point and non-point source pollution

- 4E Agricultural runoff including fertilizers/animal waste, herbicides,
- 4F Urban runoff

- 3F Urban/residential development
- 3G Shoreline development
- 3H Habitat loss outside of Kentucky
- 3M Timber harvest
- 3P Pollution/toxicity (e.g., heavy metals, pesticides, herbicides, acid rain)

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